

AD-A106 227

FEDERAL AVIATION ADMINISTRATION WASHINGTON DC OFFICE --ETC F/0 6/5
INDEX TO FAA OFFICE OF AVIATION MEDICINE REPORTS: 1961 THROUGH --ETC(U)
JAN 81 J R DILLE, A HARAWAY

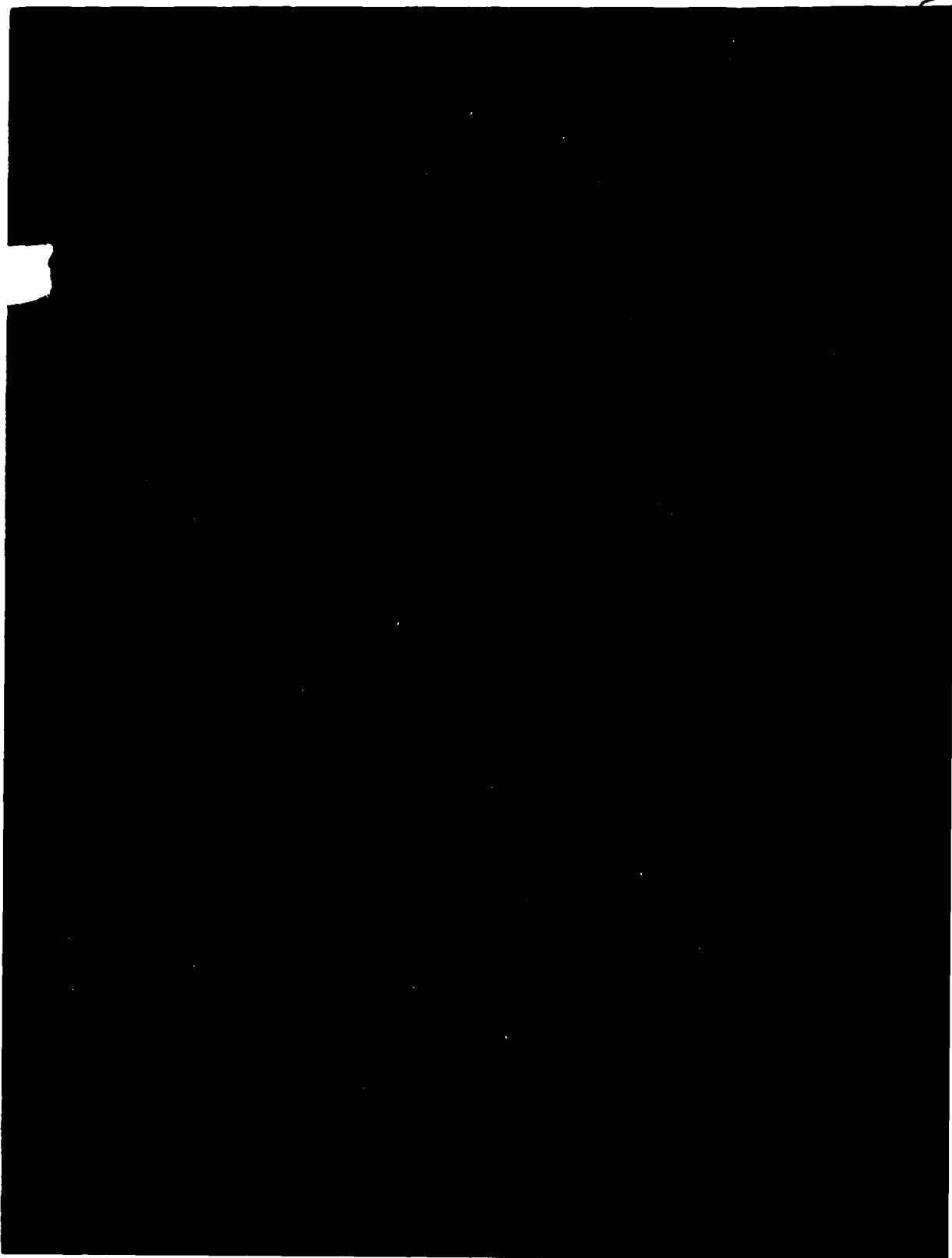
UNCLASSIFIED

FAA-AM-81-1

NL

100-1
400-227

END
DATE
FILED
1-1-81
RTIC



Technical Report Documentation Page

1. Report No. FAA-AM-81-1	2. Government Accession No. AD-A106 227	3. Recipient's Catalog No.		
4. Title and Subtitle INDEX TO FAA OFFICE OF AVIATION MEDICINE REPORTS: 1961 THROUGH 1980		5. Report Date		
7. Author(s) J. Robert Dille Annabelle Haraway		6. Performing Organization Code		
9. Performing Organization Name and Address FAA Civil Aeromedical Institute P.O. Box 25082 Oklahoma City, Oklahoma 73125		8. Performing Organization Report No. 11 51		
12. Sponsoring Agency Name and Address Office of Aviation Medicine Federal Aviation Administration 800 Independence Avenue, SW. Washington, D.C. 20591		10. Work Unit No. (TRAIS)		
15. Supplementary Notes		11. Contract or Grant No.		
16. Abstract An index to Office of Aviation Medicine Reports (1964-1980) and Civil Aeromedical Research Institute Reports (1961-1963) is presented as a reference for those engaged in aviation medicine and related activities. It provides a listing of all FAA aviation medicine reports published from 1961 through 1980 by year, number, author, title, and subject.		13. Type of Report and Period Covered		
17. Key Words Aviation Medicine Research Reports Office of Aviation Medicine		14. Sponsoring Agency Code		
19. Security Classif. (of this report) Unclassified		20. Distribution Statement Document is available to the public through the National Technical Information Service, Springfield, Virginia 22161	21. No. of Pages 74	22. Price



The newest addition to the Mike Monroney Aeronautical Center in Oklahoma City is the Radar Training Facility (RTF), which was dedicated on July 18, 1980. The RTF provides all incoming air traffic control students with a course of basic radar training. The evaluation process and the pass/fail criteria for the course were developed from the Civil Aeromedical Institute's research studies that appear in Office of Aviation Medicine Reports Nos. 80-5 and 80-15.

INDEX TO FAA OFFICE OF AVIATION MEDICINE REPORTS
1961 THROUGH 1978

1961

61-1 Trites, D. K.: Problems in air traffic management: I. Longitudinal prediction of effectiveness of air traffic controllers. AD268954

1962

62-1 Swearingen, J. J., Wheelwright, C. D., and Garner, J. D.: An analysis of sitting areas and pressures of man. AD271138

62-2 Cobb, B. B., Jr.: Problems in air traffic management: II. Prediction of success in air traffic controller school. N62-10354

62-3 Trites, D. K., and Cobb, B. B., Jr.: Problems in air traffic management: III. Implications of age for training and job performance of air traffic controllers. N62-10353

62-4 Swearingen, J. J., and Mohler, S. R.: Sonotropic effects of commercial air transport sound on birds. AD280212

62-5 Iampietro, P. F., and Goldman, R.: Prediction of energy cost of treadmill work. AD280607

62-6 Balke, B.: Human tolerances. AD421156

62-7 Hasbrook, A. H., and Earley, J. C.: Failure of rearward-facing seat backs and resulting injuries in a survivable transport accident. AD421157

62-8 Smith, P. W.: Toxic hazards in aerial application. AD421158

62-9 Hasbrook, A. H., Garner, J. D., and Snow, C. C.: Evacuation pattern analysis of a survivable commercial aircraft crash. AD282893

62-10 Daugherty, J. W., Lacey, D. E., and Korty, P.: Problems in aerial application: I. Some biochemical effects of lindane and dieldrin on vertebrates. AD288413

62-11 Hawkes, G. R.: Tactile communication. AD288414

62-12 Dille, J.R., Newton, N. L., and Culver, J. F.: The effects of simulated altitude on penetrating eye injuries. AD288415

DTIC
ELECTED
S OCT 27 1981 D
B

1

By	_____
Distribution	_____
Availability Codes	_____
Avail and/or	_____
Dist	Special
A	

62-13 Swearingen, J. J., Hasbrook, A. H., Snyder, R. G., and McFadden, E. B.: Kinematic behavior of the human body during deceleration. AD283938

62-14 Swearingen, J. J.: Determination of centers of gravity of man. AD287156

62-15 Gogel, W. C.: The visual perception of size and distance. AD287197

62-16 Hawkes, G. R.: Absolute identifications of cutaneous stimuli varying in both intensity level and duration. AD295134

62-17 Collins, W. E.: Manipulation of arousal and its effects on human vestibular nystagmus induced by caloric irrigation and angular accelerations. AD290348

62-18 Hinshaw, L. B., Brake, C. M., Iampietro, P. F., and Emerson, T. E., Jr.: Effect of increased venous pressure on renal hemodynamics. AD295137

62-19 Snyder, R. G.: A case of survival of extreme vertical impact in seated position. AD295136

62-20 Mohler, S. R.: Civil aeromedical research: Responsibilities, aims, and accomplishments. AD295135

62-21 McFadden, E. B., Raeke, J. W., and Young, J. W.: An improved method for determining the efficiency of crew and passenger oxygen masks. AD297835

1963

63-1 Emerson, T. E., Jr., Hinshaw, L. B., Brake, C. M., and Iampietro, P. F.: The development of reversible hematuria and oliguria following elevation of renal venous pressure. AD299775

63-2 Mohler, S. R., and Dille, J. R.: Résumé and index of reports of the Civil Aeromedical Research Institute, 1961-1962. AD431924

63-3 Collins, W. E.: Observations on the elicitation of secondary and inverted primary nystagmus from the cat by unilateral caloric irrigation. AD413456

63-4 Daugherty, J. W., Lacey, D. E., and Korty, P.: Problems in aerial application: II. Effects of chlorinated hydrocarbons on substrate-linked phosphorylation. AD418504

63-5 Melton, C. E., Jr.: Neural control of the ciliary muscle. AD413392

63-6 Balke, B.: A simple field test for the assessment of physical fitness. AD413393

63-7 Tobias, J. V., and Jeffress, L. A.: Relation of earphone transient response to measurement of onset-duration. AD413391

63-8 McKenzie, J. M., Fowler, P. R., and Lyne, P. J.: Calibration of an electronic counter and pulse height analyzer for plotting erythrocyte volume spectra. AD425598

63-9 Swearingen, J. J., and McFadden, E. B.: Studies of air loads on man. AD602207

63-10 Gogel, W. C.: The perception of depth from binocular disparity. AD429827

63-11 Lategola, M. T.: In vivo measurement of total gas pressure in mammalian tissue. AD425537

63-12 Nagle, F. J., Balke, B., Ganslen, R. V., and Davis, A. W.: The mitigation of physical fatigue with Spartase. AD429001

63-13 Collins, W. E.: Primary, secondary, and caloric nystagmus of the cat following habituation to rotation. AD428756

63-14 Collins, W. E.: Nystagmus responses of the cat to rotation and to directionally equivalent and nonequivalent stimuli after unilateral caloric habituation. AD425565

63-15 Snyder, R. G.: Human survivability of extreme impacts in free-fall. AD425412

63-16 Emerson, T. E., Jr., Brake, C. M., and Hinshaw, L. B.: Mechanisms of action of the insecticide endrin. AD431299

63-17 Tobias, J. V.: Application of a "relative" procedure to a problem in binaural beat perception. AD428899

63-18 Balke, B.: Experimental evaluation of work capacity as related to chronological and physiological aging. AD431301

63-19 Wernick, J. S., and Tobias, J. V.: A central factor in pure tone auditory fatigue. AD428737

63-20 Gogel, W. C.: The visual perception of spatial extent. AD432587

63-21 Tang, P. C., and Dille, J. R.: In-flight loss of consciousness; a case report. AD430394

63-22 Hinshaw, L. B., Page, B. B., Brake, C. M., Emerson, T. E., Jr., and Masucci, F. D.: The mechanisms of intrarenal hemodynamic changes following acute arterial occlusion. AD431302

63-23 Higgins, E. A., Lampietro, P. F., Adams, T., and Holmes, D. D.: The effects of a tranquilizer on body temperature. AD432484

63-24 Dille, J. R., and Smith, P. W.: Central nervous system effects of chronic exposure to organophosphate insecticides. AD434090

63-25 Adams, T., Funkhouser, G. E., and Kendall, W. W.: A method for the measurement of physiologic evaporative water loss. AD603418

63-26 Reins, D. A., Holmes, D. D., and Hinshaw, L. B.: Acute and chronic effects of the insecticide endrin on renal function and renal hemodynamics. AD602206

63-27 Dille, J. R., Crane, C. R., and Pendergrass, G. E.: The flammability of lip, face, and hair preparations in the presence of 100% oxygen. AD602204

63-28 Gogel, W. C.: Size cues and the adjacency principle. AD602205

63-29 Collins, W. E.: Task-control of arousal and the effects of repeated unidirectional angular acceleration on human vestibular responses. AD603419

63-30 Snyder, R. G., Ice, J., Duncan, J. C., Hyde, A. S., and Leverett, S., Jr.: Biomedical research studies in acceleration. AD601531
Supplement--AD801793

63-31 Trites, D. K., and Cobb, B. B., Jr.: Problems in air traffic management: IV. Comparison of preemployment, job-related experience with aptitude tests as predictors of training and job performance of air traffic control specialists. AD603416

63-32 Hinshaw, L. B., Emerson, T. E., Jr., and Brake, C. M.: Mechanism of autoregulation in the intact kidney. AD603417

63-33 Dill, D. B., Robinson, S., Balke, B., and Newton, J. L.: Work tolerance: Age and altitude. AD603932

63-34 Ganslen, R. V., Balke, B., Phillips, E. E., and Nagle, F.: Effects of some tranquilizing, analeptic, and vasodilating drugs on physical work capacity and orthostatic tolerance. AD603930

63-35 Pearson, R. G.: Human factors aspects of lightplane safety. AD603931
Tech. Pub. #1 Collins, W. E., Tobias, J. V., Capps, M. J., and Allen, M. E.: Annotated bibliography of recently translated material. I. AD424640

1964

64-1 Wentz, A. E.: Studies on aging in aviation personnel. AD456652

64-2 Naughton, J., Balke, B., and Nagle, F.: The effect of physical conditioning on an individual before and after suffering a myocardial infarction. AD456653

64-3 Nagle, F. J., and Balke, M.: The gradational step test for assessing cardiorespiratory capacity: An experimental evaluation of treadmill and step test procedures. AD456654

64-4 Spieth, W.: Cardiovascular health status, age, and psychological performance. AD453578.

64-5 Moser, K. M.: Current status of clot dissolution therapy. AD453579

64-6 Seipel, J. H., and Wentz, A. E.: Unsuspected neurologic disease in aviation personnel: Survival following seizures in flight. AD453580

64-7 Houk, V. N., Hufnagel, C. A., McClenathan, J. E., and Moser, K. M.: Chronic thrombotic obstruction of major pulmonary arteries. AD453581

64-8 Moser, K. M., Perry, R. B., and Luchsinger, P. C.: Cardiopulmonary consequences of pyrogen-induced hyperpyrexia in man.

64-9 Freud, S. L.: Duration of spiral aftereffect as a function of retinal size, retinal place, and hemiretinal transfer. AD618588

64-10 Freud, S. L.: Duration as a measure of the spiral aftereffect. AD618589

64-11 Pinkerson, A. L., Kot, P. A., and Knowlan, D. M.: Effect of glyceryl trinitrate on pulmonary vasculature of anesthetized dogs.

64-12 Scarborough, W. R.: Comments on progress in ballistocardiographic research and the current state of the art. AD455651

64-13 Gogel, W. C.: The size cue to visually perceived distance. AD456655

64-14 Capps, M. J., and Collins, W. E.: Effects of bilateral caloric habituation on nystagmus responses of the cat. AD455652

64-15 Collins, W. E., and Huffman, H. W.: Design and performance characteristics of a mechanically driven vestibular stimulator. AD456656

64-16 Tobias, J. V., Collins, W. E., and Allen, M. E.: Aviation medicine translations: Annotated bibliography of recently translated material. II. AD456670

64-17 Freud, S. L.: The physiological locus of the spiral aftereffect. AD611881

64-18 Melton, C. E., Jr.: Physiological recordings from pilots operating an aircraft simulator. AD456671

64-19 Perloff, J. K.: The recognition of strictly posterior myocardial infarction by conventional scalar electrocardiography. AD611882

64-20 FAA Aviation Medical Library: Aviation medical papers and reports: a bibliography. AD613364

1965

65-1 Capps, M. J., and Collins, W. E.: Auditory fatigue: Influence of mental factors. AD459636

65-2 Collins, W. E., and Capps, M. J.: Effects of several mental tasks on auditory fatigue. AD459637

65-3 Reighard, H. L.: Medical services at airports. AD611883

65-4 Seipel, J. H., Ziemnowicz, S. A. R., and O'Doherty, D. S.: Cranial impedance plethysmography—Rheoencephalography as a method of detection of cerebrovascular disease. AD611884

65-5 Hauty, G. T., Trites, D. K., and Berkley, W. J.: Biomedical survey of ATC facilities: I. Incidence of self-reported symptoms. AD689806

65-6 Hauty, G. T., Trites, D. K., and Berkley, W. J.: Biomedical survey of ATC facilities: II. Experience and age. N66-16669

65-7 Mohler, S. R., Swearingen, J. J., McFadden, E. B., and Garner, J. D.: Human factors of emergency evacuation. AD459638

65-8 van Brummelen, A. G. W., Scarborough, W. R., and Josenhans, W. K. T.: On the elimination of pulse wave velocity in stroke volume determination from the ultralow frequency displacement ballistocardiogram. AD612450

65-9 Lowenstein, O., Feinberg, R., and Loewenfeld, I.: Pupillary movements during acute and chronic fatigue. AD612451

65-10 O'Connor, W. F., and Pearson, R. G.: ATC system error and appraisal of controller proficiency. N66-16583.

65-11 Gogel, W. C.: The equidistance tendency and its consequences: Problems in depth perception. AD621432

65-12 Snyder, R. G.: Survival of high-velocity free-falls in water. AD621021

65-13 Mohler, S. R.: Fatigue in aviation activities. AD620022

65-14 Snow, C. C., and Hasbrook, A. H.: The angle of shoulder slope in normal males as a factor in shoulder-harness design. AD653920

65-15 Scarborough, W. R. (Joint NASA-FAA publication): Ballistocardiography: a bibliography. N65-35520

65-16 Hauty, G. T., and Adams, T.: Pilot fatigue: Intercontinental jet flight: Oklahoma City-Tokyo. AD621433.

65-17 Allen, M. E., Collins, W. E., Tobias, J. V., and Crain, R. A.: Aviation medicine translations: Annotated bibliography of recently translated material. III. AD617090

65-18 Collins, W. E.: Adaptation to vestibular disorientation: I. Vertigo and nystagmus following repeated clinical stimulation. AD617091

65-19 Cobb, B. B., Jr.: Problems in air traffic management: V. Identification and potential of aptitude test measures for selection of tower air traffic controller trainees. AD620722

65-20 Swearingen, J. J.: Tolerances of the human face to crash impact. AD621434

65-21 Trites, D. K.: Problems in air traffic management: VI. Interaction of training-entry age with intellectual and personality characteristics of air traffic control specialists. AD620721

65-22 Trites, D. K., Miller, M. C., and Cobb, B. B., Jr.: Problems in air traffic management. VII. Job and training performance of air traffic control specialists—measurement, structure, and prediction. AD649292

65-23 Swearingen, J. J., and Young, J. W.: Determination of centers of gravity of children, sitting and standing. AD661865

65-24 Collins, W. E.: Adaptation to vestibular disorientation. II. Nystagmus and vertigo following high-velocity angular accelerations. AD621435

65-25 Feinberg, R., and Podolak, E.: Latency of pupillary reflex to light stimulation and its relationship to aging. AD689809

65-26 Snow, C. C., and Snyder, R. G.: Anthropometry of air traffic control trainees. N66-25185

65-27 Brake, C. M., Reins, D., Wittmers, L. E., and Hinshaw, L. B.: Intrarenal hemodynamic changes following acute partial renal arterial occlusion. AD649263

65-28 Hauty, G. T., and Adams, T.: Phase shifts of the human circadian system and performance deficit during the periods of transition: I. East-West flight. AD639637

65-29 Hauty, G. T., and Adams, T.: Phase shifts of the human circadian system and performance deficit during the periods of transition: II. West-East flight. AD689811

65-30 Hauty, G. T., and Adams, T.: Phase shifts of the human circadian system and performance deficit during the periods of transition: III. North-South flight. AD689812

65-31 Pearson, R. G., Hunter, C. E., and Neal, G. L.: Development and evaluation of a radar air traffic control research task. AD660198

65-32 Gogel, W. C., and Mertens, H. W.: Problems in depth perception: A method of simulating objects moving in depth. AD660171

1966

66-1 Allen, M. E., and Mohler, S. R.: Aviation medicine reports: An annotated catalog of Office of Aviation Medicine reports: 1961 through 1965. AD638732

66-2 Allen, M. E., and Crain, R. A.: Aviation medicine translations: Annotated bibliography of recently translated material. IV. AD651907

66-3 Mohler, S. R., and Swearingen, J. J.: Cockpit design for impact survival. AD687411

66-4 Tobias, J. V.: A table of intensity increments. AD642113

66-5 Clark, G.: Problems in aerial application: A comparison of the effects of dieldrin poisoning in cold-adapted and room-temperature mammals. N66-30197

66-6 Fiorica, V.: Fatigue and stress studies: An improved semiautomated procedure for fluorometric determination of plasma catecholamines. AD653748

66-7 McFadden, E. B.: Evaluation of the physiological protective efficiency of a new prototype disposable passenger oxygen mask. AD644118

66-8 Mohler, S. R.: The predominant causes of crashes and recommended therapy. AD639779

66-9 Young, J. W.: Selected facial measurements of children for oxygen-mask design. AD640062

66-10 O'Connor, W. F., and Pendergrass, G. E.: Effects of decompression on operator performance. AD675774

66-11 Hinshaw, L. B., Reins, D. A., Emerson, T. E., Jr., Rieger, J. A., Jr., Stavinotha, W. B., Fiorica, V., Solomon, L. A., and Holmes, D. D.: Problems in aerial application: I.—V. AD660199

66-12 Swearingen, J. J.: Injury potentials of light-aircraft instrument panels. AD642114

66-13 McFadden, E. B., and Simpson, J. M.: Flotation characteristics of aircraft-passenger seat cushions. AD642349

66-14 Iampietro, P. F., Fiorica, V., Dille, J. R., Higgins, E. A., Funkhouser, G., and Moses, R.: Problems in aviation personnel: Influence of a tranquilizer on temperature regulation in man. AD638733

66-15 O'Connor, W. F., Scow, J., and Pendergrass, G. E.: Hypoxia and performance decrement. AD639780

66-16 Lategola, M. T., Harrison, H. F., and Barnard, C.: The aeromedical assessment of human systolic and diastolic blood-pressure transients without direct arterial puncture. AD639615

66-17 Naughton, J., Shanbour, K., Armstrong, R., McCoy, J., and Lategola, M. T.: Problems in aeromedical certification: Cardiovascular responses to exercise following myocardial infarction. AD640970

66-18 Swearingen, J. J.: Evaluation of head and face injury potential of current airline seats during crash decelerations. AD653869

66-19 Pearson, R. G.: Performance tasks for operator-skills research. AD642115

66-20 McFadden, E. B., and Lategola, M. T.: Evaluation of the Sierra hanging quick-don crew pressure-breathing oxygen mask. AD645493

66-21 Naughton, J., Lategola, M. T., and Shanbour, K.: Clinical aviation medicine: A physical-conditioning program for cardiac patients. AD640969

66-22 Gogel, W. C., and Mertens, H. W.: Problems in depth perception: Perceived size and distance of familiar objects. AD641477

66-23 Iampietro, P. F., and Adams, T.: The achievement of thermal balance and its maintenance during environmental stress. AD642350

66-24 Agee, F. L., Jr., and Gogel, W. C.: Problems in depth perception: Equidistance judgments in the vicinity of a binocular illusion. AD641476

66-25 Mohler, S. R., Freud, S. L., Veregge, J. E., and Umberger, E. L.: Physician flight accidents. AD648768

66-26 Clark, G.: Problems in aerial application: Histochemistry of Weil stain on liver. AD652599

66-27 Dille, J. R., and Morris, Edward W.: Human factors in general aviation accidents. AD640971

66-28 Mohler, S. R.: Oxygen in general aviation. AD645497

66-29 Mohler, S. R.: Recent findings on the impairment of airmanship by alcohol. AD644119

66-30 Mohler, S. R., and Harper, C. R.: Protecting the Ag pilot. AD641478

66-31 Von Rosenberg, C. W., Keen, F. R., and Mohler, S. R.: The "stall barrier" as a new preventive in general aviation accidents. AD642351

66-32 Mohler, S. R., and Hasbrook, A. H.: In-flight response to a new non-gyroscopic blind flight instrument. AD641479

66-33 Young, J. W.: Recommendations for shoulder restraint installation in general aviation aircraft. AD646054

66-34 Clark, G.: Problems in aerial application: A comparison of the acute effects of endrin and carbon tetrachloride on the livers of rats and of the residual effects one month after poisoning. AD645494

66-35 Melton, C. E., Jr., and Wicks, S. M.: Pilot vision considerations: The effect of age on binocular fusion time. AD645495

66-36 Nagle, F. J., Naughton, J., and Balke, B.: Clinical aviation medicine research: Comparison of simultaneous measurements of intra-aortic and auscultatory blood pressure with pressure-flow dynamics during rest and exercise. AD645496

66-37 Collins, W. E.: Adaptation to vestibular disorientation. III. Influence on adaptation of interrupting nystagmic eye movements with opposing stimuli. AD649615

66-38 Mertens, H. W.: A homogeneous field for light adaptation.

66-39 Melton, C. E., Jr., Higgins, E. A., Saldivar, J. T., and Wicks, S. M.: Exposure of men to intermittent photic stimulation under simulated IFR conditions. AD646872

66-40 Swearingen, J. J.: Evaluation of various padding materials for crash protection. AD647048

66-41 McKenzie, J. M., and Fiorica, V.: Physiological responses of pilots to severe-weather flying. AD646871

66-42 Garner, J. D., and Blethrow, J. G.: Emergency evacuation tests of a crashed L-1649. AD645423

1967

67-1 Cobb, B. B., Jr.: The relationships between chronological age, length of experience, and job performance ratings of air route traffic control specialists. AD661468

67-2 Mertens, R. A., and Collins, W. E.: Adaptation to vestibular disorientation. IV. Responses to angular acceleration and to bilateral caloric stimulation following unilateral caloric habituation. AD653696

67-3 McFadden, E. B.: Development of techniques for evaluating the physiological protective efficiency of civil aviation oxygen equipment. AD659498

67-4 McFadden, E. B., Reynolds, H. I., and Funkhouser, G. E.: A protective passenger smoke hood. AD657436

67-5 Fowler, P. R., and McKenzie, J. M.: Problems in aerial application: Detection of mild poisoning by organophosphorus pesticides using an automated method for cholinesterase activity. AD656211

67-6 Collins, W. E., and Guedry, F. E., Jr.: Adaptation to vestibular disorientation. V. Eye-movement and subjective turning responses to two durations of angular acceleration. N67-38956

67-7 Guedry, F. E., Jr., and Collins, W. E.: Adaptation to vestibular disorientation. VI. Eye-movement and subjective turning responses to varied durations of angular acceleration. AD671855

67-8 Lewis, M. F., and Ashby, F. K.: Diagnostic tests of color-defective vision: Annotated bibliography, 1956-1966. AD660200

67-9 McFadden, E. B., Harrison, H. F., and Simpson, J. M.: Performance characteristics of constant-flow phase dilution oxygen mask designs for general aviation. AD660201

67-10 Rowland, R. C., Jr., and Tobias, J. V.: Interaural intensity difference limen. AD661235

67-11 Seipel, J. H.: The biophysical basis and clinical applications of rheoencephalography. AD673082

67-12 Collins, W. E.: Adaptation to vestibular disorientation. VII. Special effects of brief periods of visual fixation on nystagmus and sensations of turning. AD659192

67-13 Young, J. W.: A functional comparison of basic restraint systems. AD660202

67-14 Swearingen, J. J.: An evaluation of potential decompression hazards in small pressurized aircraft. AD660203

67-15 Melton, C. E., Jr., and Wicks, S. M.: In-flight physiological monitoring of student pilots. AD665660

67-16 Lewis, M. F.: Cross-modality matching of loudness to brightness for flashes of varying luminance and duration. AD664463

67-17 Funkhouser, G. E., and Billings, S. M.: A portable device for the measurement of evaporative water loss. AD664465

67-18 Gogel, W. C.: Cue-enhancement as a function of task-set. AD664466

67-19 Collins, W. E.: Adaptation to vestibular disorientation. VIII. "Coriolis" vestibular stimulation and the influence of different visual surrounds. N68-16799

67-20 Gogel, W. C., and Mertens, H. W.: Perceived depth between familiar objects. AD665293

67-21 Crane, C. R., and Sanders, D. C.: Evaluation of a biocidal turbine-fuel-additive. AD665661

67-22 Mohler, S. R., Bedell, R. H. S., Ross, A., and Veregge, E. J.: Aircraft accidents by older persons. AD663688

67-23 Veregge, E. J.: Type airman certification as related to accidents. AD663688

67-24 Lewis, M. F., and Mertens, H. W.: Reaction time as a function of flash luminance and duration. AD664464

67-25 Siegel, P. V.: Aviation medicine, FAA-1966. AD675943

1968

68-1 Index to FAA Office of Aviation Medicine Reports: 1961 through 1967. AD673666

68-2 Collins, W. E.: Adaptation to vestibular disorientation: IX. Influence of head position on the habituation of vertical nystagmus. AD677460

68-3 Podolak, E., Kinn, J. B., and Westura, E. E.: Biomedical applications of a commercial capacitance transducer. AD683292

68-4 Fiorica, V., Burr, M. J., and Moses, R.: Contribution of activity to the circadian rhythm in excretion of magnesium and calcium. AD674416

68-5 Booze, C. F., Jr.: Usage of combined airman certification by active airmen: An active airman population estimate. AD678947

68-6 Crosby, W. M., Snyder, R. G., Snow, C. C., and Hanson, P. G.: Impact injuries in pregnancy. I. Experimental studies. AD674861

68-7 Allen, M. E., and Mertens, R. A.: Aviation medicine translations: Annotated bibliography of recently translated material. V. AD673665

68-8 Mohler, S. R., Dille, J. R., and Gibbons, H. L.: Circadian rhythms and the effects of long-distance flights. AD672898

68-9 Siegel, P. V., and Booze, C. F., Jr.: A retrospective analysis of aeromedical certification denial actions. January 1961—December 1967. AD675521

68-10 Collins, W. E., and Schroeder, D. J.: The spiral aftereffect: Influence of stimulus size and viewing distance on the duration of illusory motion. AD673644

68-11 Hasbrook, A. H., and Young, P. E.: Pilot response to peripheral vision cues during instrument flying tasks. AD684804

68-12 Hasbrook, A. H., and Young, P. E.: Peripheral vision cues: Their effect on pilot performance during instrument landing approaches and recoveries from unusual attitudes. AD683305

68-13 Vaughan, J. A., Higgins, E. A., Funkhouser, G. E., and Galerston, E. M.: The effects of body thermal state on manual performance. AD675522

68-14 Cobb, B. B., Jr.: A comparative study of air traffic trainee aptitude-test measures involving Navy, Marine Corps, and FAA controllers. AD686669

68-15 Higgins, E. A., Davis, A. W., Jr., Fiorica, V., Iampietro, P. F., Vaughan, J. A., and Funkhouser, G. E.: Effects of two antihistamine-containing compounds upon performance at three altitudes. AD676502

68-16 Dille, J. R., and Mohler, S. R.: Drug and toxic hazards in general aviation. AD686670

68-17 Thackray, R. I., and Pearson, D. W.: The effects of cognitive appraisal of stress on heart rate and task performance. AD687413

68-18 Higgins, E. A., Davis, A. W., Jr., Vaughan, J. A., Funkhouser, G. E., and Galerston, E. M.: The effects of alcohol at three simulated aircraft cabin conditions. AD686671

68-19 Snyder, R. G., and Snow, C. C.: Fatal injuries resulting from extreme water impact. AD688424

68-20 Lewis, M. F.: Two-flash thresholds as a function of flash luminance and area. AD686672

68-21 Tobias, J. V.: Cockpit noise intensity: Fifteen single-engine light aircraft. AD686425

68-22 Hasbrook, A. H.: A comparison of effects of peripheral vision cues on pilot performance during instrument flight in dissimilar aircraft simulators. AD688425

68-23 Fiorica, V.: A table for converting pH to hydrogen ion concentration $[H^+]$ over the range 5-9. AD688120

68-24 Snyder, R. G., Snow, C. C., Crosby, W. M., Hanson, P., Fineg, J., and Chandler, R.: Impact injury to the pregnant female and fetus in lap belt restraint. AD689359

68-25 Tobias, J. V.: Cockpit noise intensity: Eleven twin-engine light aircraft. AD688111

68-26 Melton, C. E., Jr., Wicks, M., Saldivar, J. T., Morgan, J., and Vance, F. P.: Physiological studies on air tanker pilots flying forest fire retardant missions. AD690090

68-27 Lewis, M. F., and Mertens, H. W.: Assessment of the Broca-Sulzer phenomenon via inter- and intra-modality matching procedures: Studies of signal-light brightness. AD689358

68-28 Collins, W. E.: Adaptation to vestibular disorientation. X. Modification of vestibular nystagmus and "vertigo" by means of visual stimulation. AD691405

1969

69-1 Melton, C. E., Jr., and Wicks, M.: Binocular fusion time in sleep-deprived subjects. AD688426

69-2 Siegel, P. V., and Mohler, S. R.: Medical factors in U.S. general aviation accidents. AD689740

69-3 Snyder, R. G., Snow, C. C., Young, J. W., Crosby, W. M., and Price, G. T.: Pathology of trauma attributed to restraint systems in crash impacts. AD690415

69-4 Snyder, R. G., Young, J. W., and Snow, C. C.: Experimental impact protection with advanced restraint systems: Preliminary primate tests with air bag and inertia reel/inverted-Y yoke torso harness. AD695416

69-5 Snyder, R. G., Crosby, W. M., Snow, C. C., Young, J. W., and Hanson, P.: Seat belt injuries in impact. AD698298

69-6 Chiles, W. D., Bruni, C. B., and Lewis, R. A.: Methodology in the assessment of complex human performance: The effects of signal rate on monitoring a dynamic process. AD697943

69-7 Pearson, D. W., and Thackray, R. I.: Consistency of performance change and autonomic response as a function of expressed attitude toward a specific stress situation. AD697944

69-8 Thackray, R. I.: Patterns of physiological activity accompanying performance on a perceptual-motor task. AD697945

69-9 Chiles, W. D., Gibbons, H. L., and Smith, P. W.: Effects of two common medications on complex performance. AD703631

69-10 Iampietro, P. F., Chiles, W. D., Higgins, E. A., Gibbons, H. L., Jennings, A. E., and Vaughan, J. A.: Complex performance during exposure to high temperatures. AD703632

69-11 Booze, C. F., Jr.: Occupations of active airmen. AD704474

69-12 Melton, C. E., Jr., Hoffmann, S. M., and Delafield, R. H.: The use of a tranquilizer (chlordiazepoxide) in flight training. AD703221

69-13 Snyder, R. G., Snow, C. C., Young, J. W., Price, G. T., and Hanson, P. G.: Experimental comparison of trauma in lateral (+G_y), rearward-facing (+G_x), and forward-facing (-G_x) body orientations when restrained by lap belt only. AD707185

69-14 Chiles, W. D., and Jennings, A. E.: Effects of alcohol on complex performance. AD703633

69-15 Williams, M. J., and Collins, W. E.: The spiral aftereffect. II. Some influences of visual angle and retinal speed on the duration and intensity of illusory motion. AD703634

69-16 Chiles, W. D., Bruni, C. B., and Lewis, R. A.: Methodology in the assessment of complex performance: The effects of signal rate on monitoring a static process. AD703635

69-17 Siegel, P. V., Gerathewohl, S. J., and Mohler, S. R.: Time-zone effects on the long-distance air traveler. AD702443

69-18 Siegel, P. V., Mohler, S. R., and Cierebiej, A.: The safety significance of aircraft accident post mortem findings. AD704473

69-19 Pearson, D. W., Clark, G., and Moore, C. M.: A comparison of the behavioral effects of various levels of chronic disulfoton poisoning. AD704470

69-20 Collins, W. E., and Updegraff, B. P.: Adaptation to vestibular disorientation. XI. The influence of specific and nonspecific gravity receptors on nystagmic responses to angular acceleration. AD704471

69-21 Thackray, R. I., and Touchstone, R. M.: Recovery of motor performance following startle. AD704472

69-22 Swearingen, J. J., Badgley, J. M., Braden, G. E., and Wallace, T. F.: Determination of centers of gravity of infants. AD708514

69-23 Brecher, M. H., and Brecher, G. A.: Motor effects from visually induced disorientation in man. AD708425

69-24 Gerathewohl, S. J.: Fidelity of simulation and transfer of training: A review of the problem. AD706744

1970

70-1 Index to FAA Office of Aviation Medicine Reports: 1961 through 1969. AD714027

70-2 Brecher, M. H., and Brecher, G. A.: Quantitative evaluation of optically induced disorientation. AD709329

70-3 Ryan, L. C., Endecott, B. R., Hanneman, G. D., and Smith, P. W.: Effects of an organophosphorus pesticide on reproduction in the rat. AD709327

70-4 Crane, C. R., Sanders, D. C., and Abbott, J. K.: Studies on the storage stability of human blood cholinesterases: I. AD714028

70-5 Higgins, E. A., Vaughan, J. A., and Funkhouser, G. E.: Blood alcohol concentrations as affected by combinations of alcoholic beverage dosages and altitudes. AD709328

70-6 Tobias, J. V.: Auditory processing for speech intelligibility improvement. AD717394

70-7 Hasbrook, A. H., and Rasmussen, P. G.: Pilot heart rate during in-flight simulated instrument approaches in a general aviation aircraft. AD711268

70-8 Fiorica, V., Higgins, E. A., Lategola, M. T., Davis, A. W., Jr., and Iampietro, P. F.: Physiological responses of men during sleep deprivation. AD713590

70-9 Gerathewohl, S. J., Morris, Everett W., and Sirkis, J. A.: Anti-collision lights for the supersonic transport (SST). AD713488

70-10 Collins, W. E., Schroeder, D. J., Rice, N., Mertens, R. A., and Kranz, G.: Some characteristics of optokinetic eye-movement patterns: A comparative study. AD715440

70-11 Revzin, A. M.: Some acute and chronic effects of endrin on the brain. AD715452

70-12 Mohler, S. R.: Physiologically tolerable decompression profiles for supersonic transport type certification. AD713055

70-13 Crane, C. R., Sanders, D. C., and Abbott, J. K.: A comparison of three serum cholinesterase methods. AD715439

70-14 Karson, S., and O'Dell, J. W.: Performance ratings and personality factors in radar controllers. AD715247

70-15 Lewis, M. F., and Mertens, H. W.: Two-flash thresholds as a function of comparison stimulus duration. AD716645

70-16 Snow, C. C., Carroll, J. J., and Allgood, M. A.: Survival in emergency escape from passenger aircraft. AD735388

70-17 Collins, W. E.: Effective approaches to disorientation familiarization for aviation personnel. AD719003

70-18 Lategola, M. T., Fiorica, V., Booze, C. F., Jr., and Folk, E. D.: Comparison of status variables among accident and nonaccident airmen from the active airman population. AD722148

70-19 Garner, J. D., and Blethrow, J. G.: Evacuation tests from an SST mockup. AD720627

70-20 McFadden, E. B., and Smith, R. C.: Protective smoke hood studies. AD727021

70-21 Lategola, M. T., and Harrison, H. F.: A device and method for rapid indirect measurement of human systolic and diastolic blood pressures. AD722032

70-22 Iampietro, P. F.: Tolerances to thermal extremes in aerospace activities. AD722001

1971

71-1 Tobias, J. V.: Noise audiometry. AD723464

71-2 Melton, C. E., Jr., McKenzie, J. M., Polis, B. D., Funkhouser, G. E., and Iampietro, P. F.: Physiological responses in air traffic control personnel: O'Hare Tower. AD723465

71-3 Swearingen, J. J.: General aviation structures directly responsible for trauma in crash decelerations. AD728728

71-4 Iampietro, P. F.: Use of skin temperature to predict tolerance to thermal environments. AD723466

71-5 Mertens, R. A., Goulden, D. R., Lacy, C. D., and Jones, K. N.: Aviation medicine translations: Annotated bibliography of recently translated material. VI. AD723467

71-6 Schroeder, D. J.: Alcohol and disorientation-related responses. I. Nystagmus and "vertigo" during caloric and optokinetic stimulation. AD728314

71-7 Thackray, R. I., and Jones, K. N.: Effects of conflicting auditory stimuli on color-word interference and arousal. AD727018

71-8 Lategola, M. T.: Biodynamic evaluation of air traffic control students between 1960-1963. AD726254

71-9 Cierebiej, A., Mohler, S. R., and Stedman, V. G.: Physician pilot-in-command flight accidents, 1964 through 1970. AD724286

71-10 Gerathewohl, S. J., Mohler, S. R., and Siegel, P. V.: Medical and psychological aspects of mass air transportation. AD726286

71-11 Fiorica, V., Burr, M. J., and Moses, R.: Effects of low-grade hypoxia on performance in a vigilance situation. AD727019

71-12 Swearingen, J. J.: Acceptance tests of various upper torso restraints. AD726253

71-13 Swearingen, J. J.: Tolerances of the human brain to concussion. AD726287

71-14 Smith, R. C.: Assessment of a "stress" response-set in the Composite Mood Adjective Check List. AD727020

71-15 Fiorica, V., and Moses, R.: Automated differential fluorometric analysis of norepinephrine and epinephrine in blood plasma and urine. AD729535

71-16 Schroeder, D. J.: Alcohol and disorientation-related responses. II. Nystagmus and "vertigo" during angular acceleration. AD730629

71-17 Chiles, W. D., Lampietro, P. F., Higgins, E. A., Vaughan, J. A., West, G., and Funkhouser, G. E.: Combined effects of altitude and high temperature on complex performance. AD729536

71-18 Gibbons, H. L., and Fromhagen, C.: Aeromedical transportation and general aviation. AD728315

71-19 Lategola, M. T.: Changes in cardiovascular health parameters over an eight-year interval in an ATC population segment. AD729537

71-20 Collins, W. E., Gilson, R. D., Schrceder, D. J., and Guedry, F. E., Jr.: Alcohol and disorientation-related responses. III. Effects of alcohol ingestion on tracking performance during angular acceleration. AD728843

71-21 Smith, R. C., Melton, C. E., Jr., and McKenzie, J. M.: Affect adjective check list assessment of mood variations in air traffic controllers. AD729832

71-22 Brecher, M. H., and Brecher, G. A.: Effect of a moving optical environment on the subjective median. AD728316

71-23 Melton, C. E., Jr., and Fiorica, V.: Physiological responses of low-time private pilots to cross-country flying. AD728317

71-24 Hasbrook, A. H., and Rasmussen, P. G.: Aural glide slope cues: Their effect on pilot performance during in-flight simulated ILS instrument approaches. AD731848

71-25 Norwood, G. K.: The philosophy and limitations of FAA aeromedical standards, policies, and procedures. AD729538

71-26 Friedberg, W., and Nelson, J. M.: Calibration of the Concorde radiation detection instrument and measurements at SST altitude. AD732789

71-27 Lewis, M. F., and Steen, J. A.: Color-defective vision and the recognition of aviation color signal light flashes. AD729539

71-28 Chiles, W. D., and Smith, R. C.: A nonverbal technique for the assessment of general intellectual ability in selection of aviation personnel. AD728844

71-29 Thackray, R. I., Touchstone, R. M., and Jones, K. N.: The effects of simulated sonic booms on tracking performance and autonomic response. AD729833

71-30 Smith, R. C., Cobb, B. B., Jr., and Collins, W. E.: Attitudes and motivational factors in terminal area air traffic control work. AD730630

71-31 Mehling, K. D., Collins, W. E., and Schroeder, D. J.: The spiral aftereffect: III. Some effects of perceived size, retinal size, and retinal speed on the duration of illusory motion. AD729834

71-32 Steen, J. A., and Lewis, M. F.: Color defective vision and day and night recognition of aviation color signal light flashes. AD730631

71-33 Mohler, S. R., and Gerathewohl, S. J.: Civil aeromedical standards for general-use aerospace transportation vehicles. AD728318

71-34 Gilson, R. D., Schroeder, D. J., Collins, W. E., and Guedry, F. E., Jr.: Alcohol and disorientation-related responses. IV. Effects of different alcohol dosages and display illumination on tracking performance during vestibular stimulation. AD729835

71-35 Smith, R. C.: Personality assessment in aviation: An analysis of the item ambiguity characteristics of the 16PF and MMPI. AD736266

71-36 Cobb, B. B., Jr., Lay, C. D., and Bourdet, N. M.: The relationship between chronological age and aptitude test measures of advanced-level air traffic control trainees. AD733830

71-37 McFadden, E. B., and Young, J. W.: Evaluation of an improved flotation device for infants and small children. AD729836

71-38 Norwood, G. K.: Senior aviation medical examiners conducting FAA first-class medical examinations. AD731849

71-39 Hill, R. J., Collins, W. E., and Schroeder, D. J.: Alcohol and disorientation-related responses: V. The influence of alcohol on positional, rotatory, and coriolis vestibular responses over 32-hour periods. AD735389

71-40 Cobb, B. B., Jr.: Air traffic aptitude test measures of military and FAA controller trainees. AD737871

71-41 Higgins, E. A., Fiorica, V., Davis, H. V., and Thomas, A. A.: The acute toxicity of brief exposure of HF, HCl, and NO₂ and HCN singly and in combination with CO. AD735160

71-42 Mertens, H. W., and Lewis, M. F.: Discrimination of short-duration (two-pulse) flashes as a function of signal luminance and method of measurement. AD737872

1972

72-1 Dille, J. R., and Grimm, M. H.: Index to FAA Office of Aviation Medicine Reports: 1961 through 1971. AD742607

72-2 Yanowitch, R. E., Mohler, S. R., and Nichols, E. A.: The psychosocial reconstruction inventory: A postdictal instrument in aircraft accident investigation. AD738464

72-3 Sirkis, J. A.: The benefits of the use of shoulder harness in general aviation aircraft. AD739943

72-4 Billings, C. E., Wick, R. L., Jr., Gerke, R. J., and Chase, R. C.: The effects of alcohol on pilot performance during instrument flight. AD740778

72-5 Chiles, W. D., Jennings, A. E., and West, G.: Multiple-task performance as a predictor of the potential of air traffic controller trainees. AD741736

72-6 Lowrey, D. L., Langston, E. D., Reed, W., and Swearingen, J. J.: Effectiveness of restraint equipment in enclosed areas. AD739944

72-7 Langston, E. D., and Swearingen, J. J.: Evaluation of a fiberglass instrument glare shield for protection against head injury. AD740732

72-8 Zeiner, A. R., and Brecher, G. A.: Effects of backscatter of brief high-intensity light on physiological responses of instrument-rated pilots and non-pilots. AD744234

72-9 Rasmussen, P. G., and Hasbrook, A. H.: Pilot tracking performance during successive in-flight simulated instrument approaches. AD743392

72-10 McFadden, E. B.: Physiological evaluation of a modified jet transport passenger oxygen mask. AD743422

72-11 Chiles, W. D., and Jennings, A. E.: Effects of alcohol on a problem-solving task. AD743423

72-12 Crane, C. R., Sanders, D. C., and Abbott, J. K.: A comparison of serum cholinesterase methods: II. AD744866

72-13 Booze, C. F., Jr.: Attrition from active airman status during 1970. AD742608

72-14 Thackray, R. I., Jones, K. N., and Touchstone, R. M.: The color-word interference test and its relation to performance impairment under auditory distraction. AD743424

72-15 Swearingen, J. J., Wallace, T. F., Blethrow, J. C., and Rowlan, D. E.: Crash survival analysis of 16 agricultural aircraft accidents. AD745257

72-16 Jones, K. N., Goulden, D. R., and Grimm, E. J.: Aviation medicine translations: Annotated bibliography for recently translated material. VII. AD747125

72-17 Lampietro, P. F., Melton, C. E., Jr., Higgins, E. A., Vaughan, J. A., Hoffman, S. M., Funkhouser, G. E., and Saldivar, J. T.: High temperature and performance in a flight task simulator. AD746057

72-18 Cobb, B. B., Jr., and Mathews, J. J.: A proposed new test for aptitude screening of air traffic controller applicants. AD746058

72-19 Chiles, W. D., and West, G.: Residual performance effects of simulated sonic booms introduced during sleep. AD747989

72-20 Lategola, M. T.: The use of simple indicators for detecting potential coronary heart disease susceptibility in the air traffic controller population. AD747990

72-21 Jennings, A. E., Chiles, W. D., and West, G.: Methodology in the measurement of complex human performance: Two-dimensional compensatory tracking. AD745259

72-22 Cobb, B. B., Jr., Mathews, J. J., and Lay, C. D.: A comparative study of female and male air traffic controller trainees. AD751312

72-23 Smith, R. C.: A study of the State-Trait Anxiety Inventory and the assessment of stress under simulated conditions. AD747991

72-24 Smith, R. C., and Hutto, G. L.: Sonic booms and sleep: Affect change as a function of age. AD749277

72-25 Thackray, R. I., Jones, K. N., and Touchstone, R. M.: Self-estimate of distractibility as related to performance decrement on a task requiring sustained attention. AD751396

72-26 Lategola, M. T.: The use of simple indicators for detecting potential coronary heart disease susceptibility in the third-class airman population. AD749278

72-27 Karim, B., Bergey, K. H., Chandler, R. F., Hasbrook, A. H., Purswell, J. L., and Snow, C. C.: A preliminary study of maximal control force capability of female pilots. AD753987

72-28 Mohler, S. R.: G effects on the pilot during aerobatics. AD751397

72-29 Lewis, M. F., Mertens, H. W., and Steen, J. A.: Behavioral changes from chronic exposure to pesticides used in aerial application: Effects of Phosdrin on the performance of monkeys and pigeons on variable interval reinforcement schedules. AD749893

72-30 Folk, E. D., Garner, J. D., Cook, E. A., and Broadhurst, J. L.: GPSS/360 computer models to simulate aircraft passenger emergency evacuation. AD755542

72-31 Tobias, J. V.: Binaural processing of speech in light aircraft. AD753637

72-32 Tobias, J. V.: Auditory effects of noise on air-crew personnel. AD757239

72-33 Cobb, B. B., Jr., Mathews, J. J., and Nelson, P. L.: Attrition-retention rates of air traffic controller trainees recruited during 1960-1963 and 1968-1970. AD757933

72-34 Schroeder, D. J., Gilson, R. D., Guedry, F. E., and Collins, W. E.: Alcohol and disorientation-related responses. VI. Effects of alcohol on eye movements and tracking performance during laboratory angular accelerations about the yaw and pitch axes. AD766937

72-35 Collins, W. E., and Iampietro, P. F.: Simulated sonic booms and sleep: Effects of repeated booms of 1.0 psf. AD762988

1973

73-1 Braden, G. E., Reed, W., and Swearingen, J. J.: Application of commercial aircraft accident investigation techniques to a railroad derailment. AD764188

73-2 Smith, R. C.: Job attitudes of air traffic controllers: A comparison of three air traffic control specialties. AD763508

73-3 Revzin, A. M.: Subtle changes in brain functions produced by single doses of mevinphos (Phosdrin). AD763509

73-4 Revzin, A. M.: Transient blindness due to the combined effects of mevinphos and atropine. AD763555

73-5 Yanowitch, R. E., Bergin, J. M., and Yanowitch, E. A.: The aircraft as an instrument of self-destruction. AD763556

73-6 Lewis, M. F.: Frequency of anticolision observing responses by solo pilots as a function of traffic density, ATC traffic warnings, and competing behavior. AD763557

73-7 Cobb, B. B., Jr., Nelson, P. L., and Mathews, J. J.: The relationships of age and ATC experience to job performance rating of terminal area traffic controllers. AD773449

73-8 Booze, C. F., Jr.: Prevalence and incidence of disease among airmen medically certified during 1965. AD773544

73-9 Hasbrook, A. H., and Rasmussen, P. G.: In-flight performance of civilian pilots using moving-aircraft and moving-horizon attitude indicators. AD773450

73-10 Lategola, M. T., Lynn, C. A., Folk, E. D., Booze, C. F., Jr., and Lyne, P. J.: Height and weight errors in aeromedical certification data. AD773452

73-11 Thackray, R. I., Rylander, R., and Touchstone, R. M.: Sonic boom startle effects: Report of a field study. AD773451

73-12 Lewis, M. F., and Ferraro, D. P.: Flying high: The aeromedical aspects of marihuana. AD775889

73-13 Tobias, J. V., and Irons, F. M.: Reception of distorted speech. AD777564

73-14 Thackray, R. I., Jones, K. N., and Touchstone, R. M.: Personality and physiological correlates of performance decrement on a monotonous task requiring sustained attention. AD777825

73-15 Smith, R. C., and Melton, C. E., Jr.: Susceptibility to anxiety and shift difficulty as determinants of state anxiety in air traffic controllers. AD777565

73-16 Thackray, R. I., Touchstone, R. M., and Bailey, J. P.: A comparison of the startle effects resulting from exposure to two levels of simulated sonic booms. AD777581

73-17 Schroeder, D. J., Collins, W. E., and Elam, G. W.: Effects of secobarbital and d-amphetamine on tracking performance during angular acceleration. AD777582

73-18 Steen, J. A., Collins, W. E., and Lewis, M. F.: Utility of several clinical tests of color-defective vision in predicting daytime and nighttime performance with the aviation signal light gun. AD777563

73-19 Constant, G. N., Goulden, D. R., and Grimm, E. J.: Aviation medicine translations: Annotated bibliography of recently translated material. VIII. AD776136

73-20 Tobias, J. V., and Irons, F. M.: Ear-protector ratings. AD779552

73-21 Melton, C. E., Jr., McKenzie, J. M., Polis, B. D., Hoffmann, S. M., and Saldivar, J. T.: Physiological responses in air traffic control personnel: Houston Intercontinental Tower. AD777838

73-22 Melton, C. E., Jr., McKenzie, J. M., Smith, R. C., Polis, B. D., Higgins, E. A., Hoffmann, S. M., Funkhouser, G. E., and Saldivar, J. T.: Physiological, biochemical, and psychological responses in air traffic control personnel: Comparison of the 5-day and 2-2-1 shift rotation patterns. AD778214

73-23 Leeper, R. C., Hasbrook, A. H., and Purswell, J. L.: Study of control force limits for female pilots. AD777839

1974

74-1 Dille, J. R., and Grimm, M. H.: Index to FAA Office of Aviation Medicine Reports: 1961 through 1973. AD779553

74-2 Mathews, J. J., Collins, W. E., and Cobb, B. B.: A sex comparison of reasons for attrition of nonjourneyman FAA air traffic controllers. AD780558

74-3 Collins, W. E.: Adaptation to vestibular disorientation. XII. Habituation of vestibular responses: an overview. AD780562

74-4 Young, J. W., Fisher, R. G., Price, G. T., and Chandler, R. F.: Experimental trauma of occipital impacts. AD780668

74-5 Booze, C. F., Jr.: Characteristics of medically disqualified airman applicants during calendar year 1971. AD781684

74-6 Lategola, M. T., and Layne, P. J.: Amplitude/frequency differences in a supine resting single-lead electrocardiogram of normal versus coronary heart diseased males. AD781685

74-7 Mathews, J. J., Collins, W. E., and Cobb, B. B., Jr.: Job-related attitudes of nonjourneyman FAA air traffic controllers and former controllers. AD787238

74-8 Cobb, B. B., Jr., and Nelson, P. L.: Aircraft-pilot and other pre-employment experience as factors in the selection of air traffic controller trainees. ADA001039

74-9 Thackray, R. I., Touchstone, R. M., and Railey, J. P.: Behavioral, autonomic, and subjective reactions to low- and moderate-level sonic booms: A report of two experiments and a general evaluation of sonic boom startle effects. ADA002266

74-10 Chiles, W. D., and West, G.: Multiple-task performance as a predictor of the potential of air traffic controller trainees: A followup study. ADA002920

74-11 Melton, C. E., Jr., McKenzie, J. M., Saldivar, J. T., and Hoffmann, S. M.: Comparison of Opa Locka Tower with other ATC facilities by means of a stress index. ADA008378

74-12 Smith, R. C.: A realistic view of the people in air traffic control. ADA006789

1975

75-1 Jones, K. N., Steen, J. A., and Collins, W. E.: Predictive validities of several clinical color vision tests for aviation signal light gun performance. ADA006792

75-2 Snow, C. C., Reynolds, H. M., and Allgood, M. A.: Anthropometry of airline stewardesses. ADA012965

75-3 Mathews, J. J., Cobb, B. B., Jr., and Collins, W. E.: Attitudes on en route air traffic control training and work: A comparison of recruits initially trained at the FAA Academy and recruits initially trained at assigned centers. ADA013343

75-4 Collins, W. E., Lennon, A. O., and Grimm, E. J.: The use of vestibular tests in civil aviation medical examinations: Survey of practices and proposals by aviation medical examiners. ADA015087

75-5 Ryan, L. C., Gerathewohl, S. J., Mohler, S. R., and Booze, C. F., Jr.: To see or not to see: Visual acuity of pilots involved in midair collisions. ADA016277

75-6 Lewis, M. F., Ferraro, D. P., Mertens, H. W., and Steen, J. A.: Interaction between marihuana and altitude on a complex behavioral task in baboons. ADA020680/5GI

75-7 Melton, C. E., Jr., Smith, R. C., McKenzie, J. M., Saldivar, J. T., Hoffmann, S. M., and Fowler, P. R.: Stress in air traffic controllers: Comparison of two air route traffic control centers on different shift rotation patterns. ADA020679/7GI

75-8 Thackray, R. I., Bailey, J. P., and Touchstone, R. M.: Physiological, subjective, and performance correlates of reported boredom and monotony while performing a simulated radar control task. ADA025426/8GI

75-9 Smith, R. C., Rana, B., and Taylor, D. K.: An evaluation of the effectiveness of the FAA Management Training School. ADA025254/4GI

75-10 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Iampietro, P. F., Winget, C. M., Funkhouser, G. E., Burr, M. J., Vaughan, J. A., and Jennings, A. E.: The effects of a 12-hour shift in the wake-sleep cycle on the physiological and biochemical responses and on multiple-task performance. ADA021518/GGI

75-11 Tobias, J. V.: Earplug ratings based on the protector-attenuation rating (P-AR). ADA024756/9GI

75-12 Hasbrook, A. H., Rasmussen, P. G., and Willis, D. M.: Pilot performance and heart rate during in-flight use of a compact instrument display. ADA021519/4GI

75-13 Reynolds, H. M., and Allgood, M. A.: Functional strength of commercial-airline stewardesses. ADA021836/2GI

75-14 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Iampietro, P. F., Vaughan, J. A., Funkhouser, G. E., Burr, M. J., Jennings, A. E., and West, G.: The effects of dextroamphetamine on physiological responses and complex performance during sleep loss. ADA021520/2GI

1976

76-1 Jennings, A. E., and Chiles, W. D.: An investigation of time-sharing ability as a factor in complex performance. ADA031881/GGA

76-2 Smith, R. C., and Melton, C. E.: Effects of ground trainer use on the psychological and physiological states of students in private pilot training. ADA024704/9GI

76-3 Tobias, J. V.: Massed versus distributed practice in learned improvement of speech intelligibility. ADA024705/GGI

76-4 Constant, G. N., Grimm, E. J., Goulden, D. R., and Murcko, L. E.: Aviation medicine translations: Annotated bibliography of recently translated material. IX. ADA031492/2GA

76-5 Vaughan, J. A., and Welsh, K. W.: Visual evaluation of smoke-protective devices. ADA031493/0GI

76-6 Cobb, B. B., Jr., Young, C. L., and Rizzuti, B. L.: Education as a factor in the selection of air traffic controller trainees. ADA031880/8GI

76-7 Dille, J. R., and Booze, C. F., Jr.: Accident experience of civilian pilots with static physical defects. ADA029431/4GI

76-8 Reighard, H. L.: Aviation medicine. ADA032558/9GI

76-9 Young, J. W., Reynolds, H. M., McConville, J. T., Snyder, R. G., and Chandler, R. F.: Development and evaluation of masterbody forms for 3- and 6-year-old-child dummies. ADA037547/7GI

76-10 Dark, S. J.: Characteristics of medically disqualified airman applicants in calendar years 1973 and 1974. ADA032603/3GI

76-11 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Funkhouser, G. E., Burr, M. J., Jennings, A. E., and Vaughan, J. A.: Physiological, biochemical, and multiple-task-performance responses to different alterations of the wake-sleep cycle. ADA033889/7GI

76-12 Collins, W. E.: Some effects of sleep deprivation on tracking performance in static and dynamic environments. ADA033331/OGI

76-13 Melton, C. E., Jr., Smith, R. C., McKenzie, J. M., Hoffmann, S. M., and Saldivar, J. T.: Stress in air traffic controllers: Effects of ARTS-III. ADA034752/GGI

76-14 Lentz, J. M., and Collins, W. E.: Three studies of motion sickness susceptibility. ADA036284/8GI

76-15 McKenzie, J. M.: The aeromedical significance of sickle-cell trait. ADA038466/9GI

1977

77-1 Murcko, L. E., and Dille, J. R.: Index to FAA Office of Aviation Medicine Reports: 1961 through 1976. ADA037234/2GI

77-2 Welsh, K. W., Vaughan, J. A., and Rasmussen, P. G.: Survey of cockpit visual problems of senior pilots. ADA037587/3GI

77-3 Lategola, M. T., Flux, M., and Lyne, P. J.: Spirometric assessment of potential respiratory impairment in general aviation airmen.

77-4 Valdez, C. D.: Ten-year survey of altitude chamber reactions using the FAA training chamber flight profiles. ADA037235/9GI

77-5 Saldivar, J. T., Hoffmann, S. M., and Melton, C. E.: Sleep in air traffic controllers. ADA038297/8GI

77-6 Gerathewohl, S. J.: Psychophysiological effects of aging: Developing a functional age index for pilots: I. A survey of the pertinent literature. ADA040322/OGI

77-7 Welsh, K. W., Rasmussen, P. G., and Vaughan, J. A.: Intermediate visual acuity of presbyopic individuals with and without distance and bifocal lens corrections. ADA038538/5GI

77-8 Hanneman, G. D., Higgins, E. A., Price, G. T., Funkhouser, G. E., Grape, P. M., and Snyder, L.: A study of effects of hyperthermia on large, short-haired male dogs: A simulated air transport environmental stress. ADA040432/7GI

77-9 Crane, C. R., Sanders, D. C., Endecott, B. R., Abbott, J. K., and Smith, P. W.: Inhalation toxicology: I. Design of a small-animal test system. II. Determination of the relative toxic hazards of 75 aircraft cabin materials. ADA043646/9GI

77-10 Booze, C. F., Jr.: An epidemiologic investigation of occupation, age, and exposure in general aviation accidents. ADA040978/9GI

77-11 Blethrow, J. G., Garner, J. D., Lowrey, D. L., Busby, D. E., and Chandler, R. F.: Emergency escape of handicapped air travelers. ADA043269/OGI

77-12 Mertens, H. W.: Perceived orientation of a runway model in nonpilots during simulated night approaches to landing. ADA044553/GGI

77-13 Welsh, K. W., Rasmussen, P. G., and Vaughan, J. A.: Readability of alphanumeric characters having various contrast levels as a function of age and illumination mode. ADA044554/4GI

77-14 Welsh, K. W., Rasmussen, P. G., and Vaughan, J. A.: Refractive error characteristics of early and advanced presbyopic individuals. ADA044555/1GI

77-15 Chiles, W. D.: Objective methods for developing indices of pilot workload. ADA044556/9GI

77-16 Lategola, M. T., Flux, M., and Lyne, P. J.: Altitude tolerance of general aviation pilots with normal or partially impaired spiro-metric function. ADA044557/7GI

77-17 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Davis, A. W., Jr., Funkhouser, G. E., Jennings, A. E., Mullen, S. R., and Fowler, P. R.: Effects of lithium carbonate on performance and biomedical functions. ADA044824/1GI

77-18 Thackray, R. I., Bailey, J. P., and Touchstone, R. M.: The effect of increased monitoring load on vigilance performance using a simulated radar display. ADA044558/5GI

77-19 Smith, P. W., Robinson, C. P., Zelenski, J. D., and Endecott, B. R.: The role of monamine oxidase inhibition in the acute toxicity of chlordimeform. ADA045507/1GI

77-20 Dille, J. R., and Booze, C. F.: The 1975 accident experience of civilian pilots with static physical defects. ADA045429/8GI

77-21 Smith, R. C., and Hutto, G. L.: Job attitudes of airway facilities personnel. ADA046412/3GI

77-22 Revzin, A. M.: Functional localization in the nucleus rotundus. ADA047717/4GI

77-23 Melton, C. E., Smith, R. C., McKenzie, J. M., Wicks, S. M., and Saldivar, J. T.: Stress in air traffic personnel: Low-density towers and flight service stations. ADA046826/4GI

77-24 Collins, W. E., Hasbrook, A. H., Lennon, A. O., and Gay, D. J.: Disorientation training in FAA-certificated flight and ground schools: a survey. ADA047718/2GI

77-25 Dailey, J. T., and Pickrel, E. W.: Development of new selection tests for air traffic controllers. ADA049049/0GI

1978

78-1 McFadden, E. B. (Ed.): Flotation and survival equipment studies. ADA051869/GGI

78-2 Revzin, A. M.: Effects of ethanol on visual unit activity in the thalamus. ADA050922/4GI

78-3 Pollard, D. W., Garner, J. D., Blethrow, J. G., and Lowrey, D. L.: Passenger flow rates between compartments: Straight-segmented stairways, spiral stairways, and passageways with restricted vision and changes of attitude. ADA051485/1GI

78-4 deSteiguer, D., Pinski, M. S., Bannister, J. R., and McFadden, E. B.: Aircrew and passenger protective breathing equipment studies. ADA051002/4GI

78-5 Higgins, E. A., Lategola, M. T., and Melton, C. E.: Three reports relevant to stress in aviation personnel. ADA051690/GGI

78-6 Chandler, R. F., and Trout, E. M.: Evaluation of seating and restraint systems and anthropomorphic dummies conducted during fiscal year 1976. ADA051691/4GI

78-7 Lewis, M. A.: Use of the occupational knowledge test to assign extra credit in selection of air traffic controllers. ADA053675/5GI

78-8 Friedberg, W., Neas, B. R., Faulkner, D. N., Hanneman, G. D., and Darden, E. B., Jr.: Radiobiological aspects of high altitude flight: Relative biological effectiveness of fast neutrons in suppressing immune capacity to an infective agent. ADA053204/4GI

78-9 McFadden, E. B.: Human respiratory considerations for civil transport aircraft system. ADA053223/4GI

78-10 Boone, J. O.: The relationship of predevelopmental "150" training with noncompetitively selected air traffic control trainees to FAA Academy success. ADA055009/5GI

78-11 Thackray, R. I., Touchstone, R. M., and Bailey, J. P.: A comparison of the vigilance performance of men and women using a simulated radar task. ADA053674/8GI

78-12 Chandler, R. F., and Trout, E. M.: Child restraint systems for civil aircraft. ADA053565/8GI

78-13 Kirkham, W. R., Collins, W. E., Grape, P. M., Simpson, J. M., and Wallace, T. F.: Spatial disorientation in general aviation accidents. ADA053230/9GI

78-14 Young, J. W., and Pinski, M. S.: Three-dimensional anthropometry of the adult face. ADA054938/GGI

78-15 Mertens, H. W.: Comparison of the visual perception of a runway model in pilots and nonpilots during simulated night landing approaches. ADA054450/2GI

78-16 Gerathewohl, S. J.: Psychophysiological effects of aging: Developing a functional age index for pilots: II. Taxonomy of psychological factors. ADA054356/1GI

78-17 Rasmussen, P. G., Welsh, K. W., and Vaughan, J. A.: Comparative readability of enroute low altitude charts with and without terrain depiction. ADA054796/8GI

78-18 Melton, C. E., McKenzie, J. M., Saldivar, J. T., and Wicks, S. M.: Experimental attempts to evoke a differential response to different stressors. ADA054795/0GI

78-19 Higgins, E. A., Chiles, W. D., McKenzie, J. M., Jennings, A. E., Funkhouser, G. E., and Mullen, S. R.: The effects of altitude and two decongestant-antihistamine preparations on physiological functions and performance. ADA054793/5GI

78-20 Lategola, M. T., Davis, A. W., Jr., Lyne, P. J., and Burr, M. J.: Cardiorespiratory assessment of decongestant-antihistamine effects on altitude, +Gz, and fatigue tolerances. ADA055089/7GI

78-21 Booze, C. F.: The morbidity experience of air traffic control personnel, 1967-1977. ADA056053/26I

78-22 Welsh, K. W., Vaughan, J. A., and Rasmussen, P. G.: Aeromedical implications of the X-Chrom lens for improving color vision deficiencies. ADA054794/3GI

78-23 Garner, J. D., Chandler, R. F., and Cook, E. A.: GPSS computer simulation of aircraft passenger emergency evacuations. ADA056098/7GI

78-24 Chandler, R. F., and Trout, E. M.: Evaluation of seating and restraint systems and anthropomorphic dummies conducted during fiscal year 1977. ADA056905/3GI

78-25 Dark, S. J., and Davis, A. W., Jr.: Characteristics of medically disqualified airman applicants in calendar years 1975 and 1976. ADA058158/7GI

78-26 Robinson, C. P., Beiergrohslein, D., Smith, P. W., and Crane, C. R.: Reactions of methamidophos with mammalian cholinesterases. ADA058683/4GI

78-27 Gerathewohl, S. J.: Psychophysiological effects of aging: Developing a functional age index for pilots: III. Measurement of pilot performance. ADA062501/2GA

78-28 Welsh, K. W., Rasmussen, P. G., and Vaughan, J. A.: Visual performance assessment through clear and sunscreen-treated windows.

78-29 Welsh, K. W., Vaughan, J. A., and Rasmussen, P. G.: Conspicuity assessment of selected propeller and tail rotor paint schemes.

78-30 McKenzie, J. M.: Assessment of factors possibly contributing to the susceptibility of sickle trait erythrocytes to mild hypoxia. ADA056200/9GI

78-31 Lacefield, D. J., Roberts, P. A., and Blossom, C. W.: Agricultural aviation versus other general aviation: Toxicological findings in fatal accidents.

78-32 Smith, R. C.: An evaluation of four MTS recurrent training courses.

78-33 Chiles, W. D., and Jennings, A. E.: Time-sharing ability in complex performance: An expanded replication.

78-34 Chiles, W. D., Jennings, A. E., and Alluisi, E. A.: The measurement and scaling of workload in complex performance.

78-35 Reighard, H. L., and Dailey, J. T.: Task force deterrence of air piracy--final report. ADA076457/1

78-36 Boone, J. O., and Lewis, M. A.: The development of the ATC selection battery: A new procedure to make maximum use of available information when correcting correlations for restriction in range due to selection. ADA066131/2GA

78-37 Jennings, A. E.: A method to evaluate performance reliability of individual subjects in laboratory research applied to work settings. ADA063731/4GA

78-38 Eighth Bethesda Conference of the American College of Cardiology, Washington, D.C., April 25-26, 1975: Cardiovascular problems associated with aviation safety. ADA066184/3GA

78-39 Rose, R. M., Jenkins, C. D., and Hurst, M. W.: Air traffic controller health change study. Boston University School of Medicine. ADA063709/OGA

78-40 Melton, C. E., McKenzie, J. M., Wicks, S. M., and Saldivar, J. T.: Stress in air traffic controllers: A restudy of 32 controllers 5 to 9 years later. ADA065767/6GA

78-41 Vaughan, J. A., Welsh, K. W., and Rasmussen, P. G.: The optical properties of smoke-protective devices. ADA064678/6GA

1979

79-1 Index to FAA Office of Aviation Medicine Reports: 1961 through 1978. ADA067983/7GA

79-2 Snow, C. C., Hartman, S., Giles, E., and Young, F. A.: Sex and race determination of crania by calipers and computer: A test of the Giles and Elliot discriminant functions in 52 forensic cases. ADA065448/36A

79-3 Lewis, M. A.: A comparison of three models for determining test fairness. ADA066586/9GA

79-4 Lewis, M. F., and Mertens, H. W.: Pilot performance during simulated approaches and landings made with various computer-generated visual glidepath indicators. ADA066220/5GA

79-5 Tobias, J. V., and Kidd, G. D., Jr.: Acoustic signals for emergency evacuation. ADA066113/2GA

79-6 Pollard, D. W.: Injuries in air transport emergency evacuation. ADA069372/1GA

79-7 Collins, W. E., and Chiles, W. D.: Laboratory performance during acute intoxication and hangover. ADA069373/9GA

79-8 Lategola, M. T., and Trent, C. C.: A lower body negative pressure box for +Gz simulation in the upright seated position. ADA069326/7GA

79-9 Schroeder, D. J., and Collins, W. E.: Effects of congenic and noncongenic alcoholic beverages on a clinical ataxia battery. ADA069375/4GA

79-10 Higgins, E. A., McKenzie, J. M., Funkhouser, G. E., and Mullen, S. R.: Effects of propranolol on time of useful function (TUF) in rats. ADA068535/4GA

79-11 Smith, R. C.: A comparison of the job attitudes and interest patterns of air traffic and airway facility personnel. ADA067826/8GA

79-12 Thackray, R. I., and Touchstone, R. M.: Visual search performance during simulated radar observation with and without a sweepline. ADA068020/7GA

79-13 McFadden, E. B. (Ed.): Oxygen equipment and rapid decompression studies. ADA070285/2GA

79-14 Boone, J. O., and Lewis, M. A.: The selection of Air Traffic Control Specialists: Two studies demonstrating methods to insure an accurate validity coefficient for selection devices. ADA068581/8GA

79-15 Revzin, A. M.: Development of electrophysiological indices of neurological toxicity for organophosphate pesticides and depressant drugs. ADA070299/3GA

79-16 Tobias, J. V.: Interstimulus interval as it affects temporary threshold shift in serial presentations of loud tones. ADA072006/OGA

79-17 Chandler, R. F., and Trout, E. M.: Evaluation of seating and restraint systems conducted during fiscal year 1978. ADA074881/4

79-18 Pickrel, E. W.: Performance standards for pass-fail determinations in the national air traffic flight service station training program.

79-19 Dille, J. R., and Booze, C. F.: The 1976 accident experience of civilian pilots with static physical defects.

79-20 Higgins, E. A., Lategola, M. T., McKenzie, J. M., Melton, C. E., and Vaughan, J. A.: Effects on ozone on exercising and sedentary adult men and women representative of the flight attendant population.

79-21 Boone, J. O.: Toward the development of a new selection battery for Air Traffic Control Specialists.

79-22 Rasmussen, P. G., Garner, J. D., Blethrow, J. G., and Lowrey, D. L.: Readability of self-illuminated signs in a smoke-obscured environment.

79-23 Pollard, D. W., Anderson, J. A., and Melton, R. J.: A description of the Civil Aeromedical Institute airline cabin safety data bank: 1970-1976.

79-24 Thackray, R. I., and Touchstone, R. M.: Effects of noise exposure on performance of a simulated radar task.

79-25 Mertens, H. W.: Runway image as a cue for judgment of approach angle.

79-26 Collins, W. E.: Performance effects of alcohol intoxication and hangover at ground level and at simulated altitude.

1980

80-1 Thackray, R. I.: Boredom and monotony as a consequence of automation: A consideration of the evidence relating boredom and monotony to stress. ADA085069/3

80-2 Friedberg, W., and Neas, B. R. (Eds.): Cosmic radiation exposure during air travel. ADA084801/0

80-3 Kirkham, W. R., Simpson, J. M., Wallace, T. F., and Gape, P. M.: Aircraft crashworthiness studies: Findings in accidents involving an aerial application aircraft.

80-4 Ryan, L. C., and Mohler, S. R.: The current role of alcohol as a factor in civil aircraft accidents. ADA086261/5

80-5 Boone, J. O., Steen, J. A., and VanBuskirk, L. K.: System performance, error rates, and training time for recent FAA Academy nonradar graduates, community persons, and handicapped persons on the radar training facility pilot position. ADA087661

80-6 Kirkham, W. R.: Medical and toxicological factors in aircraft accidents. ADA087690

80-7 Collins, W. E., Boone, J. O., and VanDeventer, A. D. (Eds.): The selection of air traffic control specialists: I. History and review of contributions by the Civil Aeromedical Institute. ADA087655

80-8 Booze, C. F., Pidkowicz, J. K., Davis, A. W., and Bolding, F. A.: Postmortem coronary atherosclerosis findings in general aviation accident pilot fatalities: 1975-1977. ADA089428

80-9 Higgins, E. A., Lategola, M. T., Melton, C. E., and Vaughan, J. A.: Effects of ozone (0.30 parts per million, $600 \mu\text{g}/\text{m}^3$) on sedentary men representative of airline passengers and cockpit crewmembers. ADA092268

80-10 McKenzie, J. M., Higgins, E. A., Funkhouser, G. E., Moses, R., Fowler, P. R., and Wicks, S. M.: Changes in the oxygen-hemoglobin dissociation curve and time of useful function at hypobaric pressures in rats after chronic oral administration of propranolol. ADA089139

80-11 Dille, J. R., and Linder, M. K.: The effects of tobacco on aviation safety. ADA091510

80-12 Chandler, R. F., Garner, J. D., Lowrey, D. L., Blethrow, J. G., and Anderson, J. A.: Considerations relative to the use of canes by blind travelers in air carrier aircraft cabins. ADA092528

80-13 Rasmussen, P. G., Chesterfield, B. P., and Lowrey, D. L.: Readability of self-illuminated signs obscured by black fuel-fire smoke. ADA092529

80-14 Smith, R. C.: Stress, anxiety, and the air traffic control specialist: Some conclusions from a decade of research. ADA093266

80-15 Boone, J. O., VanBuskirk, L., and Steen, J. A.: The Federal Aviation Administration's radar training facility and employee selection and training. ADA093027

80-16 Melton, C. E.: Effects of long-term exposure to low levels of ozone: A review. ADA094426

80-17 Thackray, R. I., and Touchstone, R. M.: An exploratory investigation of various assessment instruments as correlates of complex visual monitoring performance.

80-18 deSteiguer, D., and Saldivar, J. T.: Evaluation of the protective efficiency of a new oxygen mask for aircraft passenger use to 40,000 feet.

80-19 Dark, S. J.: Characteristics of medically disqualified airman applicants in calendar years 1977 and 1978.

80-20 McKenzie, J. M.: Vocational options for those with sickle cell trait: Questions about hypoxemia and the industrial environment.

AUTHOR INDEX

<u>Name</u>	<u>Report</u>
Abbott, J. K. -----	70-4, 70-13, 72-12, 77-9.
Adams, T. -----	63-23, 63-25, 65-16, 65-28, 65-29, 65-30, 66-23.
Agee, F. L., Jr. -----	66-24.
Allen, M. E. -----	Tech. Pub. #1, 64-16, 65-17, 66-1, 66-2, 68-7.
Allgood, M. A. -----	70-16, 75-2, 75-13.
Alluisi, E. A. -----	78-34.
Anderson, J. A. -----	79-23, 80-12.
Armstrong, R. -----	66-17.
Ashby, F. K. -----	67-8.
Aviation Medical Library, FAA -----	64-20.
Badgley, J. M. -----	69-22.
Bailey, J. P. -----	73-16, 74-9, 75-8, 77-18, 78-11.
Balke, B. -----	62-6, 63-6, 63-12, 63-18, 63-33, 63-34, 64-2, 64-3, 66-36.
Bannister, J. R. -----	78-4.
Barnard, C. -----	66-16.
Bedell, R. H. S. -----	67-22.
Beiergrohslein, D. -----	78-26.
Bergey, K. H. -----	72-27.
Bergin, J. M. -----	73-5.
Berkley, W. J. -----	65-5, 65-6.
Billings, C. E. -----	72-4.
Billings, S. M. -----	67-17.
Blethrow, J. G. -----	66-42, 70-19, 72-15, 77-11, 78-3, 79-22, 80-12.
Blossom, C. W. -----	78-31.
Bolding, F. A. -----	80-8.
Boone, J. O. -----	78-10, 78-36, 79-14, 79-21, 80-5, 80-7, 80-15.
Booze, C. F., Jr. -----	68-5, 68-9, 69-11, 70-18, 72-13, 73-8, 73-10, 74-5, 75-5, 76-7, 77-10, 77-20, 78-21, 79-19, 80-8.
Bourdet, N. M. -----	71-36.
Braden, G. E. -----	69-22, 73-1.
Brake, C. M. -----	62-18, 63-1, 63-16, 63-22, 63-32, 65-27.
Brecher, G. A. -----	69-23, 70-2, 71-22, 72-8.
Brecher, M. H. -----	69-23, 70-2, 71-22.
Broadhurst, J. L. -----	72-30.
van Brummelen, A.G.W. -	65-8.
Bruni, C. B. -----	69-6, 69-16.
Burr, M. J. -----	68-4, 71-11, 75-10, 75-14, 76-11, 78-20.
Busby, D. E. -----	77-11.
Capps, M. J. -----	Tech. Pub. #1, 64-14, 65-1, 65-2.
Carroll, J. J. -----	70-16.
Chandler, R. F. -----	68-24, 72-27, 74-4, 76-9, 77-11, 78-6, 78-12, 78-23, 78-24, 79-17, 80-12.
Chase, R. C. -----	72-4.
Chesterfield, B. P. ---	80-13.
Chiles, W. D. -----	69-6, 69-9, 69-10, 69-14, 69-16, 71-17, 71-28, 72-5, 72-11, 72-19, 72-21, 74-10, 75-10, 75-14, 76-1, 76-11, 77-15, 77-17, 78-19, 78-33, 78-34, 79-7.

<u>Name</u>	<u>Report</u>
Cierebiej, A. -----	69-18, 71-9.
Clark, G. -----	66-5, 66-26, 66-34, 69-19.
Cobb, B. B., Jr. -----	62-2, 62-3, 63-31, 65-19, 65-22, 67-1, 68-14, 71-30, 71-36, 71-40, 72-18, 72-22, 72-33, 73-7, 74-2, 74-7, 74-8, 75-3, 76-6.
Collins, W. E. -----	62-17, 63-3, 63-13, 63-14, 63-29, Tech. Pub. #1, 64-14, 64-15, 64-16, 65-1, 65-2, 65-17, 65-18, 65-24, 66-37, 67-2, 67-6, 67-7, 67-12, 67-19, 68-2, 68-10, 68-28, 69-15, 69-20, 70-10, 70-17, 71-20, 71-30, 71-31, 71-34, 71-39, 72-34, 72-35, 73-17, 73-18, 74-2, 74-3, 74-7, 75-1, 75-3, 75-4, 76-12, 76-14, 77-24, 78-13, 79-7, 79-9, 79-26, 80-7.
Constant, G. N. -----	73-19, 76-4.
Cook, E. A. -----	72-30, 78-23.
Crain, R. A. -----	65-17, 66-2.
Crane, C. R. -----	63-27, 67-21, 70-4, 70-13, 72-12, 77-9, 78-26.
Crosby, W. M. -----	68-6, 68-24, 69-3, 69-5.
Culver, J. F. -----	62-12.
Dailey, J. T. -----	77-25, 78-35.
Darden, E. B., Jr. -----	78-8.
Dark, S. J. -----	76-10, 78-25, 80-19.
Daugherty, J. W. -----	62-10, 63-4.
Davis, A. W., Jr. -----	63-12, 68-15, 68-18, 70-8, 77-17, 78-20, 78-25, 80-8.
Davis, H. V. -----	71-41.
Delafield, R. H. -----	69-12.
deSteiguer, D. -----	78-4, 80-18.
Dill, D. B. -----	63-33.
Dille, J. R. -----	62-12, 63-2, 63-21, 63-24, 63-27, 66-14, 66-27, 68-8, 68-16, 72-1, 74-1, 76-7, 77-1, 77-20, 79-19, 80-11.
Duncan, J. C. -----	63-30.
Earley, J. C. -----	62-7.
Elam, G. W. -----	73-17.
Emerson, T. E., Jr. ---	62-18, 63-1, 63-16, 63-22, 66-11.
Endecott, B. R. -----	70-3, 77-9, 77-19.
Faulkner, D. N. -----	78-8.
Feinberg, R. -----	65-9, 65-25.
Ferraro, D. P. -----	73-12, 75-6.
Fineg, J. -----	68-24.
Fiorica, V. -----	66-6, 66-11, 66-14, 66-41, 68-4, 68-15, 68-23, 70-8, 70-18, 71-11, 71-15, 71-23, 71-41.
Fisher, R. G. -----	74-4.
Flux, M. -----	77-3, 77-16.
Folk, E. D. -----	70-18, 72-30, 73-10.
Fowler, P. R. -----	63-8, 67-5, 75-7, 77-17, 80-10.
Freud, S. L. -----	64-9, 64-10, 64-17, 66-25.
Friedberg, W. -----	71-26, 78-8, 80-2.

<u>Name</u>	<u>Report</u>
Fromhagen, C. -----	71-18.
Funkhouser, G. E. -----	63-25, 66-14, 67-4, 67-17, 68-13, 68-15, 68-18, 70-5, 71-2, 71-17, 72-17, 73-22, 75-10, 75-14, 76-11, 77-8, 77-17, 78-19, 79-10, 80-10.
Galerston, E. M. -----	68-13, 68-18.
Ganslen, R. V. -----	63-12, 63-34.
Garner, J. D. -----	62-1, 62-9, 65-7, 66-42, 70-19, 72-30, 77-11, 78-3, 78-23, 79-22, 80-12.
Gay, D. J. -----	77-24.
Gerathewohl, S. J. -----	69-17, 69-24, 70-9, 71-10, 71-33, 75-5, 77-6, 78-16, 78-27.
Gerke, R. J. -----	72-4.
Gibbons, H. L. -----	68-8, 69-9, 69-10, 71-18.
Giles, E. -----	79-2.
Gilson, R. D. -----	71-20, 71-34, 72-34.
Gogel, W. C. -----	62-15, 63-10, 63-20, 63-28, 64-13, 65-11, 65-32, 66-22, 66-24, 67-18, 67-20.
Goldman, R. F. -----	62-5.
Goulden, D. R. -----	71-5, 72-16, 73-19, 76-4.
Grape, P. M. -----	77-8, 78-13, 80-3.
Grimm, E. J. -----	72-16, 73-19, 75-4, 76-4.
Grimm, M. H. -----	72-1, 74-1.
Guedry, F. E., Jr. -----	67-6, 67-7, 71-20, 71-34, 72-34.
Hanneman, G. D. -----	70-3, 77-8, 78-8.
Hanson, P. G. -----	68-6, 68-24, 69-5, 69-13.
Harper, C. R. -----	66-30.
Harrison, H. F. -----	66-16, 70-21.
Hartman, S. -----	79-2.
Hasbrook, A. H. -----	62-7, 62-9, 62-13, 65-14, 66-32, 68-12, 68-22, 70-7, 71-24, 72-9, 72-27, 73-9, 73-23, 75-12, 77-24.
Hauty, G. T. -----	65-5, 65-6, 65-16, 65-28, 65-29, 65-30.
Hawkes, G. R. -----	62-11, 62-16.
Higgins, E. A. -----	63-23, 66-14, 66-39, 68-13, 68-15, 68-18, 69-10, 70-5, 70-8, 71-17, 71-41, 72-17, 73-22, 75-10, 75-14, 76-11, 77-8, 77-17, 78-5, 78-19, 79-10, 79-20, 80-4, 80-10.
Hill, R. J. -----	71-39.
Hinshaw, L. B. -----	62-18, 63-1, 63-16, 63-22, 63-26, 63-32, 66-11.
Hoffman, S. M. -----	69-12, 72-17, 73-21, 73-22, 74-11, 75-7, 76-13, 77-5.
Holmes, D. D. -----	63-23, 63-26, 66-11.
Houk, V. N. -----	64-7.
Huffman, H. W. -----	64-15.
Hufnagel, C. A. -----	64-7.
Hunter, C. E. -----	65-31.
Hurst, M. W. -----	78-39.
Hutto, G. L. -----	72-24, 77-21.
Hyde, A. S. -----	63-30.

<u>Name</u>	<u>Report</u>
Lampietro, P. F. -----	62-5, 62-18, 63-1, 63-23, 66-14, 66-23, 68-15, 69-10, 70-8, 70-22, 71-2, 71-4, 71-17, 72-17, 72-35, 75-10, 75-14.
Ice, J. -----	63-30.
Irons, F. M. -----	73-13, 73-20.
Jeffress, L. A. -----	63-7.
Jenkins, C. D. -----	78-39.
Jennings, A. E. -----	69-10, 69-14, 72-5, 72-11, 72-21, 75-10, 75-14, 76-1, 76-11, 77-17, 78-19, 78-33, 78-34, 78-37.
Jones, K. N. -----	71-5, 71-7, 71-29, 72-14, 72-16, 72-25, 73-14, 75-1.
Josenhans, W. K. T. -----	65-8.
Karim, B. -----	72-27.
Karson, S. -----	70-14.
Keen, F. R. -----	66-31.
Kendall, W. W. -----	63-25.
Kidd, G. D., Jr. -----	79-5.
Kinn, J. B. -----	68-3.
Kirkham, W. R. -----	78-13, 80-3, 80-6.
Knowlan, D. M. -----	64-11.
Kortv, P. -----	62-10, 63-4.
Kot, P. A. -----	64-11.
Kranz, G. -----	70-10.
Lacefield, D. J. -----	78-31.
Lacey, D. E. -----	62-10, 63-4.
Lacy, C. D. -----	71-5.
Langston, E. D. -----	72-6, 72-7.
Lategola, M. T. -----	63-11, 66-16, 66-17, 66-20, 66-21, 70-8, 70-18, 70-21, 71-8, 71-19, 72-20, 72-26, 73-10, 74-6, 77-3, 77-16, 78-5, 78-20, 79-8, 79-20, 80-9.
Lay, C. D. -----	71-36, 72-22.
Layne, P. J. -----	74-6.
Leeper, R. C. -----	73-23.
Lennon, A. O. -----	75-4, 77-24.
Lentz, J. M. -----	76-14.
Leverett, S., Jr. -----	63-30.
Lewis, M. A. -----	78-7, 78-36, 79-3.
Lewis, M. F. -----	67-8, 67-16, 67-24, 68-20, 68-27, 70-15, 71-27, 71-32, 71-42, 72-29, 73-6, 73-12, 73-18, 75-6, 79-4, 79-14.
Lewis, R. A. -----	69-6, 69-16.
Linder, M. K. -----	80-11.
Loewenfeld, I. -----	65-9.
Lowenstein, O. -----	65-9.
Lowrey, D. L. -----	72-6, 77-11, 78-3, 79-22, 80-12, 80-13.
Luchsinger, P. C. -----	64-8.
Lyne, P. J. -----	63-8, 73-10, 77-3, 77-16, 78-20.
Lynn, C. A. -----	73-10.

<u>Name</u>	<u>Report</u>
Masucci, F. D. -----	63-22.
Mathews, J. J. -----	72-18, 72-22, 72-33, 73-7, 74-2, 74-7, 75-3.
McClenathan, J. E. -----	64-7.
McConville, J. T. -----	76-9.
McCoy, J. -----	66-17.
McFadden, E. B. -----	62-13, 62-21, 63-9, 65-7, 66-7, 66-13, 66-20, 67-3, 67-4, 67-9, 70-20, 71-37, 72-10, 78-1, 78-4, 78-9, 79-13.
McKenzie, J. M. -----	63-8, 66-41, 67-5, 71-2, 71-21, 73-21, 73-22, 74-11, 75-7, 75-10, 75-14, 76-11, 76-13, 76-15, 77-17, 77-23, 78-18, 78-19, 78-30, 78-40, 79-10, 79-20, 80-10.
Mehling, K. D. -----	71-31.
Melton, C. E., Jr. -----	63-5, 64-18, 66-35, 66-39, 67-15, 68-26, 69-1, 69-12, 71-2, 71-21, 71-23, 72-17, 73-15, 73-21, 73-22, 74-11, 75-7, 76-2, 76-13, 77-5, 77-23, 78-5, 78-18, 78-40, 79-20, 80-9, 80-16.
Melton, R. J. -----	79-23.
Mertens, H. W. -----	62-32, 66-22, 66-38, 67-20, 67-24, 68-27, 70-15, 71-42, 72-29, 75-6, 77-12, 78-15, 79-4, 79-25.
Mertens, R. A. -----	67-2, 68-7, 70-10, 71-5.
Mohler, S. R. -----	62-4, 62-20, 63-2, 65-7, 65-13, 66-1, 66-3, 66-8, 66-25, 66-29, 66-30, 66-31, 66-32, 67-22, 68-8, 68-16, 69-2, 69-17, 69-18, 70-12, 71-9, 71-10, 71-33, 72-2, 72-28, 75-5, 80-4.
Moore, C. M. -----	69-19.
Morgan, J. C. -----	68-26.
Morris, Edward W. -----	66-27.
Morris, Everett W. -----	70-9.
Moser, K. M. -----	64-5, 64-7, 64-8.
Moses, R. -----	66-14, 68-4, 71-11, 71-15, 80-10.
Mullen, S. R. -----	77-17, 78-19, 79-10.
Murcko, L. E. -----	76-4, 77-1.
Nagle, F. J. -----	63-12, 63-34, 64-2, 66-36.
Naughton, J. -----	64-2, 66-17, 66-21, 66-36.
Neal, G. L. -----	65-31.
Neas, B. R. -----	78-8, 80-2.
Nelson, J. M. -----	71-26.
Nelson, P. L. -----	72-33, 73-7, 74-8.
Newton, J. L. -----	63-33.
Newton, N. L. -----	62-12.
Nichols, E. A. -----	72-2.
Norwood, G. K. -----	71-25, 71-38.
O'Connor, W. F. -----	65-10, 66-10, 66-15.
O'Dell, J. W. -----	70-14.
O'Doherty, D. S. -----	65-4.
Page, B. B. -----	63-22.
Pearson, D. W. -----	68-17, 69-7, 69-19.

<u>Name</u>	<u>Report</u>
Pearson, R. G. -----	63-35, 65-10, 65-31, 66-19.
Pendergrass, G. E. -----	63-27, 66-10, 66-15.
Perloff, J. K. -----	64-19.
Perry, R. B. -----	64-8.
Phillips, E. E. -----	63-34.
Pickrel, E. W. -----	77-25, 79-18.
Pidkowicz, J. K. -----	80-8.
Pinkerson, A. L. -----	64-11.
Pinski, M. S. -----	78-4, 78-14.
Podolak, E. -----	65-25, 68-3.
Polis, B. D. -----	71-2, 73-21, 73-22.
Pollard, D. W. -----	78-3, 79-6, 79-23.
Price, G. T. -----	69-3, 69-13, 74-4, 77-8.
Purswell, J. L. -----	72-27, 73-23.
Raeke, J. W. -----	62-21.
Rana, B. -----	75-9.
Rasmussen, P. G. -----	70-7, 71-24, 72-9, 73-9, 75-12, 77-2, 77-7, 77-13, 77-14, 78-17, 78-22, 78-28, 78-29, 78-41, 79-22, 80-13.
Reed, W. -----	72-6, 73-1.
Reighard, H. L. -----	65-3, 76-8, 78-35.
Reins, D. A. -----	63-26, 65-27, 66-11.
Revzin, A. M. -----	70-11, 73-3, 73-4, 77-22, 78-2, 79-15.
Reynolds, H. I. -----	67-4.
Reynolds, H. M. -----	75-2, 75-13, 76-9.
Rice, N. -----	70-10.
Rieger, J. A., Jr. -----	66-11.
Rizzuti, B. L. -----	76-6.
Roberts, P. A. -----	78-31.
Robinson, C. P. -----	77-19, 78-26.
Robinson, S. -----	63-33.
Rose, R. M. -----	78-39.
Ross, A. -----	67-22.
Rowlan, D. E. -----	72-15.
Rowland, R. C., Jr. ---	67-10.
Ryan, L. C. -----	70-3, 75-5, 80-4.
Rylander, R. -----	73-11.
Saldivar, J. T. -----	66-39, 68-26, 72-17, 73-21, 73-22, 74-11, 75-7, 76-13, 77-5, 77-23, 78-18, 78-40, 80-18.
Sanders, D. C. -----	67-21, 70-4, 70-13, 72-12, 77-9.
Scarborough, W. R. -----	64-12, 65-8, 65-15.
Schroeder, D. J. -----	68-10, 70-10, 71-6, 71-16, 71-20, 71-31, 71-34, 71-39, 72-34, 73-17, 79-9.
Scow, J. -----	66-15.
Seipel, J. H. -----	64-6, 65-4, 67-11.
Shanbour, K. -----	66-17, 66-21.
Siegel, P. V. -----	67-25, 68-9, 69-2, 69-17, 69-18, 71-10.
Simpson, J. M. -----	66-13, 67-9, 78-13, 80-3.

<u>Name</u>	<u>Report</u>
Sirkis, J. A. -----	70-9, 72-3.
Smith, P. W. -----	62-8, 63-24, 69-9, 70-3, 77-9, 77-19, 78-26.
Smith, R. C. -----	70-20, 71-14, 71-21, 71-28, 71-30, 71-35, 72-23, 72-24, 73-2, 73-15, 73-22, 74-12, 75-7, 75-9, 76-2, 76-13, 77-21, 77-23, 78-32, 79-11, 80-14.
Snow, C. C. -----	62-9, 65-14, 65-26, 68-6, 68-19, 68-24, 69-3, 69-4, 69-5, 69-13, 70-16, 72-27, 75-2, 79-2.
Snyder, L. -----	77-8.
Snyder, R. G. -----	62-13, 62-19, 63-15, 63-30, 65-12, 65-26, 68-6, 68-19, 68-24, 69-3, 69-4, 69-5, 69-13, 76-9.
Solomon, L. A. -----	66-11.
Spieth, W. -----	64-4.
Stavinoha, W. B. -----	66-11.
Stedman, V. G. -----	71-9.
Steen, J. A. -----	71-27, 71-32, 72-29, 73-18, 75-1, 75-6, 80-5, 80-1.
Swearingen, J. J. -----	62-1, 62-4, 62-13, 62-14, 63-9, 65-7, 65-20, 65-23, 66-3, 66-12, 66-18, 66-40, 67-14, 69-22, 71-3, 71-12, 71-13, 72-6, 72-7, 72-15, 73-1.
Tang, P. C. -----	63-21.
Taylor, D. K. -----	75-9.
Thackray, R. I. -----	68-17, 69-7, 69-8, 69-21, 71-7, 71-29, 72-14, 72-25, 73-11, 73-14, 73-16, 74-9, 75-8, 77-18, 78-11, 79-12, 79-24, 80-1, 80-17.
Thomas, A. A. -----	71-41.
Tobias, J. V. -----	63-7, 63-17, 63-19, Tech. Pub. #1, 64-16, 65-17, 66-4, 67-10, 68-21, 68-25, 70-6, 71-1, 72-31, 72-32, 73-13, 73-20, 75-11, 76-3, 79-5, 79-16.
Touchstone, R. M. -----	69-21, 71-29, 72-14, 72-25, 73-11, 73-14, 73-16, 74-9, 75-8, 77-18, 78-11, 79-12, 79-24, 80-17.
Trent, C. C. -----	79-8.
Trites, D. K. -----	61-1, 62-3, 63-31, 65-5, 65-6, 65-21, 65-22.
Trout, E. M. -----	78-6, 78-12, 78-24, 79-17.
Umberger, E. L. -----	66-25.
Updegraff, B. P. -----	69-20.
Valdez, C. D. -----	77-4.
VanBuskirk, L. K. -----	80-5, 80-15.
Vance, F. P. -----	68-26.
VanDeventer, A. D. -----	80-7.
Vaughan, J. A. -----	68-13, 68-15, 68-18, 69-10, 70-5, 71-17, 72-17, 75-10, 75-14, 76-5, 76-11, 77-2, 77-7, 77-13, 77-14, 78-17, 78-22, 78-28, 78-29, 78-41, 79-20, 80-9.
Veregge, J. E. -----	66-25, 67-22, 67-23.
Von Rosenberg, C. W. --	66-31.
Wallace, T. F. -----	69-22, 72-15, 78-13, 80-3.
Welsh, K. W. -----	76-5, 77-2, 77-7, 77-13, 77-14, 78-17, 78-22, 78-28, 78-29, 78-41.
Wentz, A. E. -----	64-1, 64-6.
Wernick, J. S. -----	63-19.

<u>Name</u>	<u>Report</u>
West, G. -----	71-17, 72-5, 72-19, 72-21, 74-10, 75-14.
Westura, E. E. -----	68-3.
Wheelwright, C. D. -----	62-1.
Wick, R. L., Jr. -----	72-4.
Wicks, S. M. -----	66-35, 66-39, 67-15, 68-26, 69-1, 77-23, 78-18, 78-40, 80-10.
Williams, M. J. -----	69-15.
Willis, D. M. -----	75-12.
Winget, C. M. -----	75-10.
Wittmers, L. E. -----	65-27.
Yanowitch, E. A. -----	73-5.
Yanowitch, R. E. -----	72-2, 73-5.
Young, C. L. -----	76-6.
Young, F. A. -----	79-2.
Young, J. W. -----	62-21, 65-23, 66-9, 66-33, 67-13, 69-3, 69-4, 69-5, 69-13, 71-37, 74-4, 76-9, 78-14.
Young, P. E. -----	68-11, 68-12.
Zeiner, A. R. -----	72-8.
Zelenski, J. D. -----	77-19.
Ziemnowicz, S. A. R. ---	65-4.

SUBJECT INDEX

Acceleration, angular

adaptation, 66-37, 67-6, 67-7, 67-12, 67-19, 69-20, 74-3.
arousal effects on nystagmus, 62-17.
arousal effects on vestibular response, 63-29.
dextroamphetamine effects on performance, 73-17, 76-12.
effects of alcohol, 71-6, 71-16, 71-20, 71-34, 71-39, 72-34.
nystagmus after caloric habituation, 63-14, 64-14, 65-18, 67-2.
nystagmus after rotation habituation, 63-13, 65-24, 68-2.
rotation device, 64-15.
secobarbital effects on performance, 73-17.
sleep loss effects on performance, 76-12.

Acceleration, linear (see also deceleration)

bibliography, 63-30.

Accidents

age of pilots, 77-10.
agricultural aircraft, 66-27, 66-30, 72-15, 78-31, 80-3.
alcohol involved, 66-29, 68-16, 78-31, 80-4.
analyses of injuries, 70-16, 71-3, 72-15.
cabin injuries, 79-23.
carbon monoxide levels without fire, 80-11.
causes, 66-8, 66-27, 66-29, 67-23, 68-16, 69-2, 70-18, 78-13.
cockpit delethalization, 66-3, 66-12, 71-3.
coronary atherosclerosis in pilot fatalities, 80-8.
drugs and toxic chemicals as causes, 68-16, 78-31.
evacuation injuries, 79-6, 80-12.
evacuation patterns, 62-9, 65-7, 70-16.
experience of pilots, 77-10.
fire, smoke protection, 67-4, 70-16, 70-20, 78-4.
identification of fatalities, 79-2.
in-flight vertigo and unconsciousness, 63-21.
injuries from seat impacts, 66-18.
injuries in extreme vertical impacts, 62-19.
injuries in rearward-facing seats, 62-7.
investigations, human factors findings, 63-35, 69-18, 72-2, 73-5, 80-6.
lapbelt-restraint injuries to pregnant females, 68-24.
occupation of pilots, 77-10.
older pilots, 67-22, 70-18.
padding for crash protection, 66-40.
physician pilots, 66-25, 71-9.
pilots with static physical defects, 76-7, 77-20, 79-19.
post mortem findings, 69-18.
predisposition, 72-2, 73-5.
prevention with blind flight instrument, 66-32.
railroad, 73-1.
shoulder harnesses to increase survival, 72-3.
spatial disorientation, 78-13.
stall warning, 66-31.

suicide, 72-2, 73-5.
survivability of free-fall impacts, 63-15.
survivability of water impacts, 65-12, 68-19.
use of seat cushions for flotation, 66-13.
visual acuity of pilots, 75-5.

Aerial application

accidents, 66-27, 66-30, 68-16, 72-15, 78-31, 80-3.
biochemical effects of lindane and dieldrin, 62-10, 63-4.
chlordimeform toxicity, 77-19.
cholinesterase determination, 67-5.
comparison of serum cholinesterase methods, 70-13, 72-12.
effects of dieldrin on liver, 66-5, 66-26.
effects of endrin, 66-11, 66-26, 66-34, 70-11.
effects of organophosphate insecticides, 63-24, 69-19, 70-3.
effects of Phosdrin on performance, 72-29, 73-3.
effects of Phosdrin on vision, 73-4.
mechanisms of action of endrin, 63-16, 63-26.
storage stability of human blood cholinesterase, 70-4.
toxic hazards, 62-8, 68-16, 78-31.
treatment of methamidophos poisoning, 78-26.

Aerobatics

G effects on pilots, 72-28.

Age

binocular fusion time effects, 66-35.
cardiovascular disease and performance, 64-4.
cardiovascular health changes in airmen, 72-26.
cockpit visual problems of senior pilots, 77-2, 77-7, 77-13, 77-14, 78-17.
index for pilots, 77-6, 78-16, 78-27.
pilots involved in aircraft accidents, 67-22, 70-18, 77-10.
pupillary reflex relationship, 65-25.
relation to air traffic controller health, 65-6, 71-8, 71-19, 72-20.
relation to air traffic controller performance, 61-1, 62-3, 65-21, 67-1, 71-36, 73-7.
relation to aircraft accident survival, 70-16.
relation to work capacity, 63-18, 63-33.
sonic boom effects during sleep, 72-19, 72-24, 72-35.
studies of effects in aviation, 64-1.

Air ambulance

status of civilian air ambulance services, 71-18.

Air bags

restraint tests, 69-3, 69-4.

Air loads

effects on man, 63-9.
small-aircraft decompressions, 67-14.

Air piracy

deterrance, 78-35.

Air traffic control

boredom with simulated radar control, 75-8, 80-1.
density, warnings, and collision avoidance, 73-6.
noise effects on performance of radar task, 79-24.
radar performance with and without a sweeline, 79-12.
radar training facility, 80-15.
simulator for research, 65-31.
vigilance at three radar display target densities, 77-18.
vigilance of men and women on simulated radar task, 78-11, 80-17.

Air traffic controllers

age effects on performance, 61-1, 62-3, 65-21, 67-1, 71-36, 73-7.
anthropometry, 65-26.
anxiety with workload, 73-15, 80-14.
aptitude tests for selection, 65-19, 68-14, 71-28, 71-36, 71-40, 72-18.
attitudes, 74-7, 74-12, 75-3, 79-11.
attrition, 72-33, 74-2, 74-7, 75-3.
biochemical stress index, 74-11, 75-7, 77-23, 78-5, 78-40.
biodynamic evaluation, 71-8.
biomedical survey, 65-5, 65-6.
Composite Mood Adjective Check Lists to measure fatigue, 71-21.
disease incidence and prevalence, 78-21.
education as selection factor, 76-6.
errors in height and weight data, 73-10.
experience as selection criterion, 63-31, 71-36, 74-8.
health changes, 71-19, 72-20, 78-39.
incident reporting, 65-10.
motivational factors, 71-30, 73-2.
Multiple Task Performance Battery for selection, 72-5, 74-10.
performance and personality factors, 70-14.
performance evaluation, 61-1, 65-22, 73-7.
physiological responses, 71-2, 73-21, 73-22, 74-11, 76-13, 77-23.
psychological testing, 61-1, 62-2, 80-14.
selection, 62-2, 72-33, 74-8, 76-6, 77-25, 78-7, 78-36, 79-3, 79-14,
79-21, 80-7, 80-15, 80-17.
sex differences in training and attrition, 72-22, 74-2, 74-7, 75-3.
shift rotation patterns effects, 73-22, 75-7, 77-5.
sleep patterns, 77-5.
symptoms reported, 61-1.
training, 78-10, 79-3, 79-18, 80-5, 80-15.

Air transportation

medical and psychological aspects, 71-10.
standards for advanced systems, 71-33.

Aircraft

accident causes, 66-8, 66-25, 66-27, 66-29, 66-30, 67-23, 68-16, 69-2,
69-18, 71-9, 72-2, 73-5, 78-13, 78-31, 80-4.
accident investigation, 62-7, 62-9, 63-21, 63-35, 67-22, 69-18, 72-2,
73-5, 79-2, 79-6, 80-3, 80-6, 80-11.
attitude indicators, 73-9.
aural glide slope cues for instrument approaches, 71-24.
biocidal fuel additive, 67-21.
cabin safety data bank, 79-23.
cockpit delethalization, 66-3, 66-12, 71-3, 72-6, 72-7, 72-15.
cockpit visual problems, 77-2, 77-7, 77-13, 77-14, 78-17.
communication in light aircraft, 72-31.
control forces and female pilots, 72-27, 73-23.
crew smoke-protective devices, 76-5, 78-4.
decompression hazards, 67-14, 70-12.
design changes to reduce injuries, 71-3, 72-7.
ditching studies, 78-1.
evacuation, 62-9, 65-7, 66-42, 70-16, 70-19, 72-30, 77-11, 78-3,
78-23, 79-5, 79-6, 80-12.
fire, smoke protection after accidents, 67-4, 70-16, 70-20, 78-4.
fires, toxicity of combustion products, 71-41, 77-9.
instrument display, 75-12.
landing, simulated night approaches, 77-12, 78-15, 79-4.
noise effects measurement, 71-1, 72-32.
noise effects on birds, 62-4.
noise levels, 68-21, 68-25, 70-6.
nongyroscopic blind flight instrument, 66-32.
oxygen system design, 78-9.
ozone concentrations and effects, 79-20, 80-9.
padding for crash protection, 66-40.
propeller paint schemes conspicuity, 78-29.
readability of emergency signs in smoke, 79-22.
restraint installation, 66-33, 67-13, 72-15.
restraint system evaluation, 69-3, 69-4, 69-5, 71-12, 72-3, 72-6,
78-6, 78-12, 78-24, 79-17, 80-3.
seat cushion flotation, 66-13.
seat evaluation, 78-6, 78-24, 79-17, 80-3.
seat impact injuries, 66-18, 72-15.
simulator operation using drugs, 64-18.
SST anticollision lights, 70-9, 70-15, 71-42.
stall warning device, 66-31.
standards for advanced aerospace systems, 71-33.
sunscreen-treated windows, 78-28.

Airport

 cues for approach and landing, 79-4, 79-25.
 medical services, 65-3, 71-10.

Airway facilities personnel

 job attitudes, 77-21, 79-11.

Alcohol

 congener effects, 79-7, 79-9.
 disorientation-related responses, 71-6, 71-16, 71-20, 71-34, 71-39, 72-34.
 effects of altitude on blood levels, 70-5.
 effects on ataxia test battery, 79-9.
 effects on complex performance, 69-14, 79-7.
 effects on instrument flight performance, 72-4.
 effects on performance at altitude, 68-18, 79-26.
 effects on problem solving, 72-11.
 effects on visual functions, 78-2, 79-15.
 findings in general aviation accidents, 66-27, 66-29, 68-16, 69-2,
 78-31, 80-4.
 hangover effects, 79-7, 79-26.

Altitude

 and heat on performance, 71-17.
 and marihuana effects on performance, 75-6.
 chamber reactions, 10-year experience, 77-4.
 cosmic radiation at SST altitudes, 71-26, 80-2.
 decompression hazards, 67-14, 70-12.
 effects of alcohol, 68-18, 79-26.
 effects of antihistamine-decongestant preparations, 78-19, 78-20.
 effects of antihistamines on performance, 68-15.
 effects on blood alcohol levels, 70-5.
 effects on penetrating eye injuries, 62-12.
 effects on performance, 66-15, 71-11.
 effects on work tolerance, 63-33.
 efficiency of oxygen masks, 62-21, 66-7, 66-9, 66-20, 67-3, 67-9, 72-10,
 79-13, 80-18.
 human tolerance, 62-6.
 need for oxygen, 66-28, 78-9.
 ozone concentrations and effects, 79-20, 80-9.
 performance after decompression, 66-10.
 propranolol effects on tolerance, 79-10, 80-10.
 tolerance with pulmonary disease, 77-16.
 tolerance with sickle cell trait, 76-15, 78-30.

Animal transportation

 heat and humidity effects on dogs, 77-8.

Anthropology

forensic, 79-2.

Anthropometry

adult face, 78-14.
air traffic controllers, 65-26.
center of gravity, 62-14, 65-23, 69-22.
faces of children for oxygen mask design, 66-9.
flight attendants, 75-2, 75-13.
shoulder slope, 65-14.
weight distribution when sitting, 62-1.

Anthropomorphic dummies

evaluation, 78-6, 78-24, 79-17.
3- and 6-year-old child dummies, 76-9.

Anticollision lights

effects of backscatter, 72-8.
exposure effects under simulated IFR conditions, 66-39.
SST, 70-9, 70-15, 71-42.

Arousal

by distracting stimuli, 71-7.
effects on nystagmus, 62-17.
effects on vestibular responses, 63-29.
simulated radar control task, 75-8, 77-18.

Attention

anticollision observing responses, 73-6.
personality and physiological correlates, 73-14.
self-estimates of distractibility, 72-25.
simulated radar task, 77-18, 78-11, 79-12, 80-17.
time-sharing ability, 76-1, 78-33.
with auditory distraction, 72-14.

Audiology

auditory fatigue, 63-19, 65-1, 65-2.
binaural beat perception, 63-17.
cockpit noise intensities, 68-21, 68-25.
ear-protector ratings, 73-20, 75-11.
earphone transient response, 63-7.
interaural intensity difference limen, 67-10.
noise audiometry, 71-1.
noise effects on aircrew personnel, 72-32.
speech intelligibility improvement, 70-6, 72-31 73-13, 76-3.

table of intensity increments, 66-4.
temporary threshold shift, 79-16.

Automation

boredom and monotony as stressors, 80-1.
complex monitoring performance predictors, 80-17.

Ballistocardiography

bibliography, 65-15.
research and current status, 64-12.
stroke volume relationship, 65-8.

Birds

possible sonotropic effects of a commercial air transport, 62-4.

Blood

altitude effects on alcohol levels, 70-5.
autoregulation of renal flow, 63-32.
cerebrovascular disease detection, 65-4.
cholinesterase measurement, 67-5.
clot dissolution therapy, 64-5.
comparison of serum cholinesterase methods, 70-13, 72-12.
erythrocyte volume spectra, 63-8.
hemoconcentration with endrin poisoning, 66-11.
oxygen saturation, 66-7, 66-15, 66-20, 67-3, 67-9.
phospholipids, 71-2, 73-21, 73-22.
plasma catecholamine determination, 66-6, 71-15.
pressure changes in ATC population, 71-19, 72-20.
pressure changes in third-class certificate holders, 72-26.
pressures by rapid indirect method, 70-21.
pulmonary flow with glyceryl trinitrate, 64-11.
pulmonary thromboembolism, 64-7.
sickle cell disease and trait, 76-15, 78-30, 80-20.
storage stability of human blood cholinesterases, 70-4.

Calcium

activity and circadian rhythm in excretion, 68-4.

Caloric irrigation

after habituation to rotation, 63-13.
alcohol effect on response, 71-6.
arousal effects upon nystagmus, 62-17.
elicitation of secondary nystagmus, 63-3.
nystagmus after habituation, 63-14, 64-14, 65-19, 67-2.

Canes

used by blind passengers, 80-12.

Carbon monoxide

as cause of aircraft accidents, 68-16, 69-2.
levels in aircraft accident victims, 70-16, 80-11.
relative toxic hazards of materials. 77-9.

Cardiovascular

antihistamine-decongestant preparations effects, 78-20.
ballistocardiographic research 64-12, 65-8, 65-15.
blood pressure measurement, 66-16, 66-36, 70-21.
cerebrovascular disease detection, 65-4.
changes in ATC population, 71-19, 72-20, 78-39.
changes in third-class certificate holders, 72-26.
coronary heart disease detection, 74-6, 78-38.
dextroamphetamine effects on heart rates, 75-14.
effects of age and physical training, 63-18, 64-1.
effects of endrin, 63-16, 66-11.
effects of glyceryl trinitrate on pulmonary vasculature, 64-11.
effects of startle on heart rates, 69-21.
effects of stress on heart rates, 68-17.
evaluation with treadmill and step test, 64-3.
function in aviation stress protocol. 78-5.
health, age, and performance, 64-4.
heart rates during instrument approaches, 70-7, 71-24, 75-12.
heart rates in air tanker pilots, 68-26.
heart rates in ATCS's, 71-2, 73-21, 73-22, 74-11.
heart rates in student pilots, 67-15, 69-12.
heart rates with complex vigilance tasks, 69-8, 75-8.
heart rates with simulated sonic booms, 71-29.
physiological responses on cross-country flights, 71-23.
post mortem findings after accidents, 69-18, 80-8.
prediction of heart rates under stress, 69-7.
problems associated with aviation safety, 78-38.
recognition of posterior infarction, 64-19.
rehabilitation after infarction, 64-2, 66-17, 66-21.
responses to hyperpyrexia, 64-8.
thromboembolic disease treatment, 64-5.
transducer for heart sounds, 68-3.

Case reports

in-flight loss of consciousness, 63-21.
insecticide exposure, 63-24.
physical conditioning after infarction, 66-21.
pulmonary thromboembolism, 64-7.
rheoencephalography in cerebrovascular disease detection, 65-4.
seizures in flight, 64-6.

Center of gravity

adults, 62-14.
children, 65-23.
infants, 69-22.

Certification

airman attrition, 72-13, 73-8.
analysis of denial actions, 68-9, 74-5, 76-10, 78-25, 80-19.
disease prevalence and incidence, 73-8.
errors in height and weight data, 73-10.
estimate of active airmen, 68-5.
exams of first-class certificate holders by senior AME's, 71-38.
procedures, 71-25.
sickle cell disease and trait, 76-15, 80-20.

Charts

readability, 77-13, 78-17.

Circadian periodicity

disruption of intercontinental flights, 65-16, 65-28, 65-29, 65-30,
68-8, 69-17.
effects of shifts in wake-sleep cycle, 75-10, 76-11.
excretion of magnesium and calcium, 68-4.

Clothing

effects on drag forces, 63-9.

Cold

effect on manual performance, 68-13.
skin temperature to predict tolerance, 71-4.
thermal balance, 66-23.

Color vision

clinical tests as predictors of practical tests, 73-18, 75-1.
defective and signal lights, recognition, 71-27, 71-32.
impairment by sunscreen materials, 78-28.
tests, 67-8.
X-Chrom lens for improving, 78-22.

Communication

binaural beat perception, 63-17.
earphone response, 63-7.
interaural intensity difference limen, 67-10.
speech intelligibility improvement, 70-6, 72-31, 73-13, 76-3.

table of intensity increments, 66-4.
tactile, 62-11, 62-16.

Deceleration

bibliography, 63-30.
cockpit delethalization, 66-3, 66-12, 72-6, 72-7, 72-15.
head impacts while wearing restraint systems, 72-6.
human tolerance, 62-6.
illumination effects during angular deceleration, 68-28.
impact injuries in pregnancy, 68-6, 68-24.
kinematics of human body, 62-13.
padding for crash protection, 66-40.
rearward-facing seats, 69-13.
restraint systems, 67-13, 69-3, 69-4, 69-5, 69-13, 72-3, 72-15, 80-3.
seat impact injuries, 66-18, 72-15.
side-facing seats, 69-13.
survival of extreme vertical impacts, 62-19.
survival of free-fall impacts, 63-15.
survival of water impacts, 65-12.
tolerances of face, 65-20.

Decompression

effects on performance, 66-10.
effects of propranolol on TUF, 79-10, 80-10.
oxygen mask evaluation, 66-20, 67-3, 72-10, 79-13, 80-18.
pressurized small aircraft, 67-14.
10-year altitude chamber experience, 77-4.
tolerable profiles for SST, 70-12.

Depth perception, 62-15, 63-10, 63-20, 63-28, 64-13, 65-11, 65-32, 66-22,
66-24, 67-18, 67-20.
light adaptation device, 66-38.

Disorientation

accidents due to, 78-13.
adaptation, 65-18, 65-24, 66-37, 67-2, 67-6, 67-7, 67-12, 67-19, 68-2,
68-28, 69-20, 74-3.
effects of alcohol, 71-6, 71-16, 71-20, 71-34, 71-39, 72-34.
familiarization techniques, 70-17, 77-24.
visually induced, 69-23, 70-2, 71-22.

Distraction

measurement of susceptibility, 72-25.
performance under auditory distraction, 72-14.

Ditching

flotation and survival equipment studies, 78-1.
infant flotation device, 71-37.
seat cushion flotation, 66-13.

Drugs

dextroamphetamine effects during angular acceleration, 73-17, 76-12.
dextroamphetamine effects during sleep loss, 75-14.
effects in methamidophos poisoning, 78-26.
effects of antihistamine-decongestant preparations at altitude, 78-19,
78-20.
effects of antihistamines at altitude, 68-15.
effects of atropine and Phosdrin on vision, 73-4.
effects of glyceryl trinitrate on pulmonary vasculature, 64-11.
effects on chlordimeform toxicity, 77-19.
effects on complex performance, 69-9.
effects on orthostatic tolerance, 63-34.
effects on performance in aircraft simulator, 64-18.
effects on visual reflexes, 79-15.
effects on work capacity, 63-34.
lithium carbonate effects on performance, 77-17.
marihuana, 73-12.
marihuana and altitude effects on performance, 75-6.
propranolol effects on altitude tolerance, 79-10, 80-10.
role in aircraft accidents, 68-16, 78-31.
secobarbital effects during angular acceleration, 73-17.
tranquilizer effects on body temperature, 63-23, 66-14.
use in fatigue, 63-12, 75-14.
use of a tranquilizer in flight training, 69-12.

Earphones

transient response, 63-7.

Earplugs

ratings, 73-20, 75-11.

Education

factor in air traffic controller selection, 76-6.

Electrocardiogram

amplitude/frequency analysis, 74-6.
diagnosis of posterior infarction, 64-19.

Energy

cost of treadmill work, 62-5.

Environment

effects of mass air transportation, 71-10.

Equipment

anthropometry in design, 65-26, 75-2.
anticollision lights, 66-39, 70-9, 70-15, 71-42, 72-8.
ARTS-III effects on controller stress, 76-13.
blood pressure measurement, 66-16, 70-21.
compact instrument display, 75-12.
crew smoke-protective devices, 76-5, 78-4, 78-41.
disorientation familiarization, 70-17.
emergency lighting, 66-42, 79-22, 80-13.
evaporative water loss, 67-17.
fire, smoke protection, 67-4, 70-20, 78-4.
flotation and survival, 78-1.
infant flotation device, 71-37.
instrument readability by senior pilots, 77-2, 77-7.
lapbelt restraint in pregnancy, 68-24.
light adaptation device, 66-38.
nongyroscopic blind flight instrument, 66-32.
oxygen, 62-21, 66-7, 66-9, 66-10, 66-20, 67-3, 67-9, 72-10, 78-4,
79-13, 80-18.
padding for crash protection, 66-40.
performance testing, 66-19.
protective for aircraft accidents, 65-7, 66-3, 66-12.
restraint systems, 67-13, 69-3, 69-4, 69-5, 72-3, 72-6.
seat cushion flotation, 66-13.
stall warning, 66-31.
transducer, 68-3.
upper torso restraint acceptance, 71-12.

Evacuation

acoustic signals for exit location, 79-5.
after air carrier accidents, 62-9, 65-7, 70-16.
after railroad accident, 73-1.
bibliography, 63-30.
handicapped passengers, 77-11.
injuries, 79-6, 79-23.
passenger flow rates between compartments, 78-3.
readability of emergency signs in smoke, 79-22, 80-13.
simulation by computer models, 72-30, 78-23.
tests using L-1649, 66-42.
tests using protective smoke hood, 70-20.
tests using SST mockup, 70-19.

Exercise

ausculatory and intra-aortic pressures, 66-36.
before and after myocardial infarction, 64-2.

effects after myocardial infarction, 66-17, 66-21.
effects on magnesium and calcium excretion, 68-4.
energy cost of treadmill work, 62-5.
tolerance at altitude, 63-33.

Experience

air traffic controller selection, 63-31, 74-8, 78-7.
correlation with ATCS age and performance, 67-1, 73-7.
pilots in general aviation accidents, 77-10.
relation to reported symptoms of ATCS's, 65-6.

Eye

age and binocular fusion time, 66-35.
airman visual acuity, midair collisions, 75-5.
alcohol effects on eye movements, 72-34.
anticollision lights, 66-39, 70-9, 70-15, 71-42, 72-8.
cockpit visual problems of senior pilots, 77-2, 77-7, 77-13, 77-14, 78-17.
color vision and signal lights, 71-27, 71-32, 73-18, 75-1, 78-22.
equidistance tendency, 65-11.
fatigue effects on binocular fusion time, 69-1.
lateral movements in student pilots, 67-15.
neural control of ciliary muscle, 63-5.
optokinetic stimulation, 70-2, 70-10, 71-22.
penetrating injuries, 62-12.
perception of depth, 63-10, 63-28, 67-20.
perception of size and distance, 62-15, 64-13, 66-22, 66-24, 67-18.
perception of spatial extent, 63-20.
photic stimulation, 66-39.
propeller paint schemes conspicuity, 78-29.
pupillary movement with fatigue, 65-9.
pupillary reflex with age, 65-25.
reaction time, flash luminance and duration, 67-24.
simulation of objects moving in depth, 65-32.
spiral aftereffect test, 64-9, 64-10, 64-17, 68-10, 69-15, 71-31.
tests for color vision, 67-8.
two-flash thresholds, 68-20, 70-15, 71-42.
vision through sunscreen materials, 78-28.
visually induced disorientation, 69-23, 70-2, 71-22.
X-Chrom lens for improving color vision, 78-22.

Fatigue

antihistamine-decongestant preparations effects, 78-20.
auditory, 63-19, 65-1, 65-2.
Composite Mood Adjective Check Lists to measure in ATCS's, 71-21.
effects of shifts in wake-sleep cycle, 75-10, 76-11.
effects of sleep deprivation, 70-8, 75-14.
effects on binocular fusion time, 69-1.
in air tanker pilots, 68-26.
in aviation activities, 65-13.

intercontinental jet flights, 65-16, 65-28, 65-29, 65-30, 68-8, 69-17.
mitigation with Spartase, 63-12.
plasma catecholamine determination, 66-6, 71-15.
pupillary movement with, 65-9.

Federal Air Surgeon

review of 1966 program, 67-25.
review of 1976 program, 76-8.

Fire

crew smoke-protective devices, 76-5, 78-4, 78-14, 78-41.
effects in air carrier accidents, 62-9, 65-7, 70-16.
flammability of toiletries in oxygen, 63-27.
protective passenger hood, 67-4, 70-20.
smoke effects on identifying emergency signs, 79-22, 80-13.
toxicity of products in aircraft fires, 71-41, 77-9.

Flight attendants

anthropometry, 75-2.
functional strength, 75-13.
injuries, cabin safety data bank, 79-23.
ozone effects, 79-20.

Fuel

biocidal additive, 67-21.

G forces

effects during aerobatics, 72-28.
simulation with lower body pressure box, 79-8.
tolerance effects of antihistamine-decongestant preparations, 78-20.

Handicapped persons

at pilot positions in radar training, 80-5.
blind passengers, 80-12.

Hearing

acoustic signals for emergency evacuation, 79-5.
auditory fatigue, 63-19, 65-1, 65-2.
binaural beat perception, 63-17.
cockpit noise intensities, 68-21, 68-25.
conservation with earplugs, 73-20, 75-11.
earphone transient response, 63-7.
interaural intensity difference limen, 67-10.
noise audiometry, 71-1.
noise effects on aircrew personnel, 72-32.

speech intelligibility improvement, 70-6, 72-31, 73-13, 76-3.
table of intensity increments, 66-4.
temporary threshold shift, 79-16.

Heat

and altitude effects on performance, 71-17.
effects on complex performance, 69-10, 72-17.
effects on dogs shipped by air transport, 77-8.
effects on manual performance, 68-13.
human tolerances, 70-22, 71-4.
maintenance of thermal balance, 66-23.
measurement of evaporative water loss, 63-25.
tranquilizer effects on loss and conservation, 63-23, 66-14.

Hijacking

deterrance, 78-35.

Human

angle of shoulder slope, 65-14.
assessment of complex performance, 69-6, 69-16.
body center of gravity, 62-14.
body kinematics on deceleration, 62-13.
center of gravity, 62-14, 65-23, 69-22.
child body models, 76-9.
factors in aviation safety, 63-35, 66-8, 66-25, 66-27, 70-18, 71-9,
71-10, 72-2, 73-5, 80-6.
factors in emergency evacuation, 65-7, 70-16.
mass distribution of children, 76-9.
physical fitness testing, 63-6.
responses to hyperpyrexia, 64-8.
responses to photic stimulation, 66-39.
responses to severe weather flying, 66-41.
survivability of free-fall impacts, 63-15, 65-12, 68-19.
tolerances, 62-6, 71-3, 71-4, 71-13.
tolerances to facial impact, 65-20, 66-12, 66-40.
tolerances to heat, 70-22, 71-4.

Hydrogen ion concentration

conversion table from pH, 68-23.

Hyperventilation, 62-6.

Hypoxia

human tolerance, 62-6, 63-33.
interaction with marihuana, 75-6.
oxygen need, 66-28.

performance decrement, 66-10, 66-15, 71-11, 71-17.
propranolol effects 79-10, 80-10.
susceptibility with sickle cell trait, 76-15, 78-30, 80-20.

Identification

sex and race diagnosis from cranial measurements, 79-2.

Illusions

spiral aftereffect, 64-9, 64-10, 64-17, 68-10, 69-15, 71-31.
visual, 70-2, 71-22, 77-12.

Injuries

agricultural aircraft accidents, 72-15, 80-3.
analysis in railroad accident, 73-1.
brain tolerances to concussion, 71-13, 74-4.
cabin safety data bank, 79-23.
cockpit delethalization, 66-3, 66-12, 71-3, 72-7.
correlation with kinematic behavior, 62-13.
decompression of small aircraft, 67-14.
emergency evacuations, 79-6.
eye, 62-12.
facial tolerances to impacts, 65-20.
from smoke and fire, 62-9, 70-16.
head impacts while wearing restraint systems, 72-6.
impact in pregnancy, 68-6, 68-24.
in free falls, 63-15.
padding for crash protection, 66-40.
prevention in aircraft accidents, 71-3.
produced by restraint systems, 69-5.
rearward-facing seats, 62-7, 69-13.
restraint systems to prevent, 67-13, 69-3, 69-4, 69-5, 69-13, 72-3.
seat impacts, 66-18.
side-facing seats, 69-13.
vertical crash forces, 62-1.
vertical impact in seated position, 62-19.
water impacts, 65-12, 68-19.

Instruments

attitude indicators, 73-9.
performance with compact display, 75-12.
radiation detection, 71-26.
readability by senior pilots, 77-2, 77-7.

Kidney

autoregulation mechanism, 63-32.
effects of acute arterial occlusion, 63-22, 65-27.

effects of increased venous pressure, 62-18, 63-1.
effects of pesticides, 63-26, 66-11.

Lighting

cockpit, 77-2, 77-13, 77-14, 78-17.

Magnesium

activity and circadian rhythm in excretion, 68-4.

Management

effectiveness of training, 75-9, 78-32.

Motion sickness

susceptibility, 76-14.

Motivation

airway facilities personnel, 77-21.
factors in ATC work, 71-30, 74-12.

Neurology

alcohol effects on ataxia test battery, 79-9.
alcohol effects on visual functions, 78-2, 79-15.
brain tolerances to concussion, 71-13, 74-4.
central factor in auditory fatigue, 63-19.
chlordimeform toxicity, 77-19.
drug effects on performance, 64-18.
effects of endrin, 63-16, 70-11.
effects of organophosphate insecticides, 63-24, 72-29, 73-3, 73-4, 79-15.
in-flight vertigo and unconsciousness, 63-21.
nucleus rotundus, 77-22.
photic stimulation, 66-38.
pupillary movement, 65-9, 65-25.
rheoencephalography in cerebrovascular disease detection, 65-4, 67-11.
seizures in flight, 64-6.
spiral aftereffect test, 64-9, 64-10, 64-17, 68-10, 69-15, 71-31.
studies at GCRI, 64-1.
vestibular tests, 75-4.

Noise

auditory fatigue, 63-19, 65-1, 65-2.
ear-protector ratings, 73-20, 75-11.
effects of simulated sonic booms, 71-29, 72-19, 72-24, 72-35, 73-16,
74-9.
effects on aircrew personnel, 72-32.

effects on birds, 62-4.
effects on performance of simulated radar task, 79-24.
intensity in aircraft cockpits, 68-21, 68-25.
performance impairment, 72-14.
sonic boom startle effects in field study, 73-11.
speech intelligibility improvement, 70-6, 72-31, 73-13, 76-3.
temporary threshold shift, 79-16.

Nystagmus

effects of adaptation, 66-37, 67-6, 67-7, 67-12, 67-19, 69-20.
effects of alcohol, 71-6, 71-16, 71-20, 71-34, 71-39, 72-34.
effects of arousal upon, 62-17, 63-29.
effects of dextroamphetamine and secobarbital, 73-17.
elicitation of secondary by irrigation, 63-3.
following caloric habituation, 63-14, 64-14, 65-18, 67-2.
following habituation to rotation, 63-13, 65-24, 68-2.
illumination effects during angular deceleration, 68-28.
optokinetic stimulation, 70-2, 70-10, 71-22.
translations of reports, Tech. Pub. #1, 64-16, 65-17, 66-2.
vertical, 68-2.

Oxygen

equipment studies, 79-13, 80-18.
flammability of toiletries, 63-27.
need at altitude, 66-28.
system design, 78-9.

Oxygen masks

crew smoke-protective devices, 76-5, 78-4, 78-14, 78-41.
design for children, 66-9.
disposable, 66-7.
donning time after decompression, 66-10.
evaluation, 62-21, 66-7, 66-20, 67-3, 67-9, 72-10, 78-4, 79-13, 80-18.

Ozone

chronic effects, 80-16.
effects under simulated flight conditions, 79-20, 80-9.

Passengers

blind, cane use in emergency evacuation, 80-12.
emergency evacuation, computer model, 72-30, 78-23.
flow rates between compartments, 78-3.
handicapped emergency evacuation, 77-11, 80-12.
illness and injuries, cabin safety data bank, 79-23.
injuries during emergency evacuation, 79-6, 79-23.
oxygen masks, 79-13, 80-18.
ozone effects, 80-9.

Patient

air transport with eye injuries, 62-12.
civilian air ambulance services, 71-18.

Perception

anticollision lights, 66-39, 70-9, 70-15, 71-42.
auditory fatigue, 63-19.
Broca-Sulzer phenomenon, 68-27.
color, 67-8.
interaural intensity difference limen, 67-10.
matching flash loudness and brightness, 67-16.
of binaural beat, 63-17.
of depth, 63-10, 63-28, 65-11, 65-32, 67-20.
of size and distance, 62-15, 64-13, 66-22, 66-24, 67-18.
of spatial extent, 63-20.
peripheral visual cues, 68-11, 68-12, 68-22.
propeller paint schemes, 78-29.
reaction time, flash luminance and brightness, 67-24.
spiral aftereffect, 64-9, 64-10, 68-10, 69-15, 71-31.
tactile, 62-11, 62-16.
two-flash thresholds, 68-20, 70-15.
vision through sunscreen materials, 78-28.

Performance

accident experience, physical defects, 76-7, 77-20.
after decompression, 66-10.
after forest fire retardant missions, 68-26.
after intercontinental flights, 65-16, 65-28, 65-29, 65-30, 68-8, 69-17.
after shifts in wake-sleep cycle, 75-10, 76-11.
age index for pilots, 77-6, 78-16, 78-27.
air traffic controllers
 age effects, 61-1, 62-3, 65-21, 67-1, 71-36, 73-7.
 aptitude tests for prediction, 65-19, 68-14, 71-28, 71-36, 71-40,
 72-18, 79-3.
 evaluation, 61-1, 65-22.
 experience as predictor, 63-31.
 incident reporting, 65-10.
 Multiple Task Performance Battery for selection, 72-5, 74-10.
 pass-fail in FSS training program, 79-18.
 radar simulator, 65-31, 75-8, 77-18, 78-11, 80-15, 80-17.
 relation to personality factors, 70-14.
 sex differences, 72-22.
antihistamine-decongestant preparations effects at altitude, 78-19.
antihistamine effects at altitude, 68-15.
attitude indicators (flight instrument), 73-9.
attitude questionnaires to predict under stress, 69-7.
aural glide slope cues for instrument approaches, 71-24.
cockpit compact instrument display, 75-12.

decrement with hypoxia, 66-15, 71-11.
dextroamphetamine effects during sleep loss, 75-14.
distractability effects, 72-25.
distracting stimuli effects, 71-7, 72-14.
drug effects during angular acceleration, 73-17.
drug effects in aircraft simulator, 64-18.
drug effects on complex performance, 69-9, 75-14, 77-17, 78-19.
effects of chronic disulfoton poisoning, 69-19.
effects of cognitive appraisal of stress, 68-17.
effects of heart disease and age, 64-4.
effects of mental tasks of auditory fatigue, 65-1, 65-2.
effects of Phosdrin, 72-29, 73-3.
effects of physical conditioning program, 66-17, 66-21.
effects of signal rate on monitoring, 69-6, 69-16.
effects of sleep deprivation, 70-8.
effects of startle, 69-21, 73-11, 73-16.
heat and altitude effects on performance, 71-17.
heat effects on complex performance, 69-10, 72-17.
impairment by alcohol, 66-29, 69-14, 71-20, 71-34, 72-4, 72-11, 72-34,
78-2, 79-7, 79-26.
instrument flying using peripheral visual cues, 68-11, 68-12, 68-22.
marihuana effects, 73-12, 75-6.
measurement, 77-15, 78-33, 78-34.
monotonous task correlates, 73-14, 75-8.
noise effects on simulated radar task, 79-24.
physiological measures on perceptual-motor tasks, 69-8.
pilot tracking during successive approaches, 72-9.
pseudopilots in radar training, 80-5.
reliability of individual subjects, 78-37.
simulated glidepath indicators, 79-4, 79-25.
smoking effects, 80-11.
sonic boom effects, 71-29, 72-19, 74-9.
student pilots, 67-15, 69-12.
tasks for operator-skills research, 66-19.
time-sharing ability, 76-1.
tracking and complex performance, 72-21.
tracking, dextroamphetamine, sleep loss, 76-12.
visual search with and without radar sweepline, 79-12.
work in heat and cold, 66-23, 68-13.

Personnel

effectiveness of management training, 75-9, 78-32.
job attitudes, airway facilities personnel, 77-21, 79-11.
test fairness for selection, 79-3.

Pesticides

aerial application aircraft accidents, 66-27, 66-30, 68-16, 78-31, 80-3.
biochemical effects of lindane and dieldrin, 62-10, 63-4.
chlordimeform toxicity, 77-19.
cholinesterase determination, 67-5.

CNS effects of organophosphates, 63-24, 69-19, 79-15.
comparison of serum cholinesterase methods, 70-13, 72-12.
effects of dieldrin on liver, 66-5, 66-26.
effects of endrin, 66-11, 66-26, 66-34, 70-11.
effects of organophosphates on reproduction, 70-3.
effects of Phosdrin on performance, 72-29, 73-3.
effects of Phosdrin on vision, 73-4.
mechanisms of action of endrin, 63-16, 63-26.
methamidophos toxicity, 78-26.
storage stability of human blood cholinesterase, 70-4.
symptoms and treatment of poisoning, 62-8.

Physical fitness

after myocardial infarction, 64-2, 66-17, 66-21.
age relationship, 63-18.
field test for, 63-6.
of ATC students, 71-8.

Physiology

evaporative water loss device, 67-17.
gas pressure in tissue, 63-11.
measures during complex task performance, 69-8.
neural control of the ciliary muscle, 63-5.
responses during sleep deprivation, 70-8, 75-14.
responses to backscatter, 72-8.
thermal balance, 66-23.
tolerances to heat, 70-22, 71-4.

Pilots

accident experience, physical defects, 76-7, 77-20, 79-19.
accident predisposition, 72-2, 73-5.
aerial applicator protection, 66-30, 72-15, 80-3.
age index, 77-6, 78-16, 78-27.
ages of those in aircraft accidents, 67-22, 70-18, 77-10.
alcohol effects on performance, 72-4, 78-2, 79-7, 79-26.
altitude tolerance with pulmonary disease, 77-16.
analysis of certification denial actions, 68-9, 74-5, 76-10, 78-25, 80-19.
anticollision observing responses, 73-6.
attrition, 72-13, 73-8.
cardiovascular health changes in third-class certificate holders, 72-26.
cockpit visual problems, 77-2, 77-7, 77-13, 77-14, 78-17.
color vision and signal lights, 71-27, 71-32, 73-18, 75-1.
control force capabilities of females, 72-27, 73-23.
coronary atherosclerosis in fatal accidents, 80-8.
disease prevalence and incidence, 73-8.
effects of drugs in aircraft simulator, 64-18.
estimate of active population, 68-5.
exams of first-class certificate holders by senior AME's, 71-38.
experience in controller selection, 74-8.

G effects of aerobatics, 72-28.
heart rates during instrument approaches, 70-7, 71-24, 75-12.
heat effects on performance in a flight simulator, 72-17.
impaired performance by alcohol, 66-29, 72-4, 78-2.
medical standards, 71-25.
noise effects on hearing, 72-32.
occupations, 69-11, 77-10.
ozone effects, 80-9.
performance on glidepath indicator systems, 79-4, 79-25.
performance with two attitude indicators, 73-9.
physician accidents, 66-25, 71-9.
physiological responses on cross-country flights, 71-23.
physiological studies in air tankers, 68-26.
pulmonary function, 77-3.
response to peripheral visual cues, 68-11, 68-12, 68-22.
responses to severe weather flying, 66-41.
smoking effects on performance, 80-11.
status variables with accidents, 70-18.
stress in student pilots, 67-15, 69-12, 76-2.
suicide, 72-2, 73-5.
tracking performance during successive approaches, 72-9.
type airman certificate related to accidents, 67-23.
vertigo, 67-19.
visual acuity, midair collisions, 75-5.
workload, 77-15.

Pregnancy

effects of organophosphate pesticides in rats, 70-3.
impact injuries, 68-6, 68-24.

Propellers

paint schemes conspicuity, 78-29.

Psychology

Composite Mood Adjective Check List to measure stress effects, 71-14, 71-21, 73-22.
job attitudes, airway facilities personnel, 77-21.
personality assessment, 71-35.
psychological autopsy, 72-2, 73-5.

Pulmonary

disease, altitude tolerance, 77-16.
function testing, 64-1, 71-8, 77-3.
ozone effects on function, 79-20, 80-9.
protection from smoke, fire, 67-4, 78-4.
responses to hyperpyrexia, 64-8.
thromboembolism, 64-7.
vascular effects of glyceryl trinitrate, 64-11.

Radiation

calibration of Concorde detection instrument, 71-26.
measurements at SST altitudes, 71-26, 80-2.
RBE of fast neutrons, 78-8.

Renal function

autoregulation mechanism, 63-32.
effects of acute arterial occlusion, 63-22, 65-27.
effects of increased venous pressure, 62-18, 63-1.
effects of insecticides, 63-26.

Research, aeromedical

aging studies at GCRI, 64-1.
aims and accomplishments, 62-20, 67-25.
ballistocardiography, 64-12, 65-8, 65-15.
bibliography of acceleration studies, 63-30.
emergency evacuation, 65-7.
index of reports, 63-2, 64-20, 66-1, 68-1, 70-1, 72-1, 74-1, 77-1, 79-1.
needs, 63-35, 71-10.
translated material, Tech. Pub. #1, 64-16, 65-17, 66-2, 68-7, 71-5, 76-4.

Restraint

acceptance of upper torso restraint, 71-12.
bibliography, 63-30.
center of gravity, 62-14, 65-23, 69-22.
cockpit delethalization, 66-3, 71-3, 72-6.
comparison of systems, 67-13, 69-3, 69-4, 69-5, 69-13.
effectiveness in agricultural aircraft accidents, 72-15, 80-3.
evaluation, 78-6, 78-24, 79-17.
head impacts while wearing, 72-6.
infant and child systems, 78-12.
kinematics with seatbelt restraint, 62-13.
lapbelt effects on pregnant female, 68-24.
shoulder harness benefits, 72-3.
shoulder harness design, 65-14.
upper body restraint installation, 66-33.

Rheoencephalography

cerebrovascular disease detection, 65-4, 67-11.

Seat

child and infant seat evaluation, 78-12.
comfort, 62-1.
cushion flotation, 66-13.

evaluation, 78-6, 78-24, 79-17, 80-3.
injury potential, 66-18, 71-3, 72-15.
pressure distribution, 62-1.
rearward-facing, injuries, 62-7, 69-13.
side-facing, impact injuries, 69-13.

Seatbelts

center of gravity in design, 62-14, 65-23.
cockpit delethalization, 66-3, 71-3.
evaluation of different systems, 67-13, 69-3, 69-13.
impact injuries due to, 69-5.
impact injuries to pregnant females, 68-24.
kinematics of restrained subjects, 62-13.

Shift rotation

attitudes of ATCS's, 73-2.
effects of 5-day and 2-2-1 patterns, 73-22, 75-7.
sleep in air traffic controllers, 77-5.
symptoms reported for ATCS's, 65-5, 65-6.

Shoulder harness

acceptance tests, 71-12.
angle of shoulder slope in design, 65-14.
benefits, 72-3.
cockpit delethalization, 66-3, 72-6.
comparison of types, 67-13, 69-3, 69-4, 69-5.
effectiveness in agricultural aircraft accidents, 72-15, 80-3.
head impacts while wearing, 72-6.
installation in general aviation aircraft, 66-33.

Sickle cell trait

aeromedical significance, 76-15, 80-20.
research protocol, 78-30.

Simulation

air traffic controller radar task, 65-31, 75-8, 77-18, 78-11, 79-12,
79-24, 80-15.
aircraft passenger emergency evacuation, 72-30, 77-11, 78-23.
aviation stress protocol, 78-5.
for operator skills research, 66-19.
+Cz, 79-8.
movement of objects in depth, 65-32.
night approaches to landing, 77-12, 78-15, 79-4.
pilot workload, 77-15.
sonic booms, 71-29, 72-19, 72-24, 72-35, 73-16.
stress in ground trainer use, 76-2.

transfer of training, 69-24.
visual glidepath indicator systems, 79-4, 79-25.

Skin

conductance with sonic booms, 71-29.
evaporative water loss, 63-25.
flammability of toiletries, 63-27.
galvanic skin response, 64-18.
tactile communication, 62-11, 62-16.
temperature to predict tolerances to heat and cold, 71-4.

Sleep

air traffic controllers, 77-5.
dextroamphetamine effects during sleep loss, 75-14.
effects of shifts in sleep-wake cycle, 75-10, 76-11.
effects of sonic booms, 72-19, 72-24, 72-35.

Smoke

crew protective devices, 76-5, 78-4, 78-14, 78-41.
effects in air carrier accidents, 62-9, 65-7, 70-16.
effects on reading emergency signs, 79-22, 80-13.
protective passenger hood, 67-4, 70-20.

Smoking

effects on aviation safety, 80-11.

Sonic booms

autonomic responses, 71-29, 72-35, 73-16, 74-9.
effects during sleep, 72-19, 72-24, 72-35.
effects on tracking performance, 71-29.
startle effects, 73-11, 73-16, 74-9.

Stalls

warning device, 66-31.

Standards

aeromedical, 71-25, 71-33
for advanced aerospace systems, 71-33.

Stress

assessment with State-Trait Anxiety Inventory, 72-23.
aviation stress protocol--simulation, 78-5.
Composite Mood Adjective Check List to measure, 71-14, 71-21.
effects on heart rate and performance, 68-17, 69-21.
evaporative water loss device, 67-17.

+G_z, 79-8.
heart rates during instrument approaches, 70-7, 71-24, 75-12.
in air tanker pilots, 68-26.
in air traffic controllers, 71-2, 71-21, 73-15, 73-21, 73-22, 74-11,
75-7, 76-13, 77-23, 78-5, 78-18, 78-40, 80-14.
measurement of evaporative water loss, 63-25.
monotony with automation as a stressor, 80-1.
of shifts in wake-sleep cycle, 75-10, 76-11.
performance under auditory distraction, 72-14.
physiological responses on cross-country flights, 71-23.
plasma catecholamine determination, 66-6, 71-15.
prediction of performance by attitudes, 69-7.
severe weather flying, 66-41.
situational in accident causation, 72-2, 73-5.
student pilots, 67-15, 69-12, 76-2.
symptoms reported by air traffic controllers, 65-5, 65-6.
urinary metabolites, 78-18, 78-40.

Suicide

aircraft accident cause, 72-2, 73-5.

Supersonic transport

anticollision lights, 70-9, 70-15, 71-42.
decompression profiles, 70-12.
evacuation tests, 70-19.
radiation at SST altitudes, 71-26, 80-2.
sonic boom effects, 71-29, 72-19, 72-24, 72-35, 73-11, 73-16, 74-9.

Temperature

effects on complex performance, 69-10, 71-17, 72-17.
effects on liver damage by dieldrin, 66-5.
effects on manual performance, 68-13.
evaporative water loss, 63-25, 67-17.
heat effects on shipped dogs, 77-8.
human tolerance, 62-6, 70-22.
hyperpyrexia, 64-8.
maintenance of thermal balance, 66-23.
tranquilizer effects on body temperature, 63-23, 66-14.

Tests

air traffic controller selection, 61-1, 62-2, 65-19, 65-21, 68-14,
71-28, 71-36, 72-5, 72-18, 74-10, 77-25, 78-7, 79-3, 79-14, 79-21,
80-7.
aptitude measures of military ATCS trainees, 71-40.
aptitude measures of female ATCS trainees, 72-22.
ataxia, alcohol effects, 79-9.
ballistocardiography, 64-12, 65-8, 65-15.
cholinesterase activity, 67-5.

color vision, 67-8, 71-27, 71-32, 73-18, 75-1.
complex human performance, 69-6, 69-16, 72-5, 72-21.
Composite Mood Adjective Check List, 71-14, 71-21, 73-22.
correlation with experience in ATCS selection, 63-31.
directional headings, 72-18.
distraction susceptibility, 71-7.
emergency evacuation, 65-7, 66-42, 70-19, 70-20, 77-11, 78-3, 79-5.
fairness, 79-3.
for physical fitness, 63-6, 63-18, 63-33, 64-3, 66-17.
pass-fail in flight service station training, 79-18.
performance, 66-19.
performance after decompression, 66-10.
performance, age and disease, 64-4.
performance and age, 65-21, 71-36.
performance and personality factors, 70-14.
performance with hypoxia, 66-15.
personality assessment, 71-35.
pupillary movement, 65-9, 65-25.
spiral aftereffect, 64-9, 64-10, 64-17, 68-10, 69-15, 71-31.
stain for dieldrin and endrin, 66-26.
State-Trait Anxiety Inventory, 72-23, 76-13, 80-14.
Stroop test, 71-7, 72-14.
system for combustion toxicology, 77-9.
vestibular during physical exams, 75-4.

Tobacco

effects on aviation safety, 80-11.

Tolerance

+G_Z, 79-8.
hypoxia, propranolol effects, 79-10, 80-10.
of brain to concussion, 71-13, 74-4.
of decompression for SST, 70-12.
of face to impact, 65-20, 66-12, 66-40.
of flight stresses, 62-6.
of free-fall impacts, 63-15.
of hot environments, 70-22.
of impacts in water, 65-12, 68-19.
of intercontinental flights, 65-16, 65-28, 65-29, 65-30.
of vertical impact, 62-19.
orthostatic drug effects, 63-34.
prediction for thermal environments, 71-4.

Toxicology

combustion products of cabin materials, 77-9.
findings in fatal aircraft accidents, 78-31, 80-11.
ozone toxicity, 80-16.

Training

air traffic controllers, 78-10, 79-3, 79-18, 80-5, 80-15.
disorientation familiarization, 70-17, 77-24.
effectiveness of management training, 75-9, 78-32.
for reception of distorted speech, 73-13.
physiological, 10-year chamber experience, 77-4.
stress in pilot training, 67-15, 69-12, 76-2.
test fairness, 79-3.
tracking performance during successive approaches, 72-9.
transfer from simulation, 69-24.

Translations

aviation medicine, 64-16, 65-17, 66-2, 68-7, 71-5, 72-16, 73-19, 76-4.
color vision tests, 67-8.
nystagmus and vestibular function, Tech. Pub. #1.

Turbulence

effects of severe weather flying, 66-41.
injuries, cabin safety data bank, 79-23.

Venous pressure

changes with renal artery occlusion, 63-22.
effects of endrin, 66-11.
effects of increase on renal function, 62-18, 63-1, 63-32.

Vertigo

Coriolis stimulation, 67-19
flicker, 66-39.
illumination during angular deceleration, 68-28.
in-flight case with unconsciousness, 63-21.
production by spiral aftereffect, 64-9, 64-10, 64-17.

Vestibular function

effects of adaptation, 66-37, 67-6, 67-7, 67-12, 67-19, 69-20, 74-3.
effects of alcohol, 71-6, 71-16, 71-20, 71-34, 71-39, 72-34, 79-9.
effects of arousal, 62-17, 63-29.
effects of dextroamphetamine and secobarbital, 73-17.
following caloric habituation, 63-14, 64-14, 65-18, 67-2.
following habituation to rotation, 63-13, 65-24, 68-2.
motion sickness susceptibility, 76-14.
rotation device, 64-15.
secondary, tertiary, and inverted primary nystagmus, 63-3.
tests during physical examinations, 75-4.
translation of reports, Tech. Pub. #1, 64-16, 65-17, 66-2, 72-16, 73-19.

Vibration

bibliography, 63-30.

Vision

acuity, pilots in midair collisions, 75-5.
age and binocular fusion time, 66-35.
alcohol effects, 78-2, 79-15.
anticollision lights, 66-39, 70-9, 70-15, 71-42, 72-8.
Broca-Sulzer phenomenon, 68-27.
chart readability, 77-13, 78-17.
color, diagnostic tests, 67-8, 71-27, 71-32, 73-18, 75-1.
cues for approach and landing, 79-4, 79-25.
disorientation, 69-23, 70-2.
drug and pesticide effects on visual reflexes, 79-15.
effects of atropine and Phosdrin, 73-4.
effects of fixation on nystagmus, 67-12.
fatigue effects on binocular fusion time, 69-1.
illusions, 70-2, 71-22, 77-12, 78-15.
instrument readability by senior pilots, 77-2, 77-7.
light adaptation device, 66-38.
matching flash loudness and brightness, 67-16.
monitoring performance on simulated radar task, 80-17.
perception of depth, 63-10, 63-28, 67-20.
perception of size and distance, 62-15, 64-13, 65-11, 66-22, 66-24, 67-18.
perception of spatial extent, 63-20.
peripheral visual cues, 68-11, 68-12, 68-22.
presbyopic individuals, 77-14.
propeller paint schemes conspicuity, 78-29.
reaction time, flash luminance and brightness, 67-24.
readability of emergency signs in smoke, 79-22, 80-13.
search performance with radar sweepline, 79-12.
smoke-protective goggles, 76-5, 78-41.
spiral aftereffect, 64-9, 64-10, 64-17, 68-10, 69-15, 71-31.
stimulation during angular deceleration, 68-28.
sunscreen materials effects, 78-28.
two-flash thresholds, 68-20, 70-15, 71-42.
X-Chrom lens to improve color vision, 78-22.

Weight

accident rate relation to body weight, 70-18.
changes in ATCS population, 71-19, 72-20.
changes in third-class certificate holders, 72-26.
errors in stated estimates, 73-10.

Weightlessness

bibliography, 63-30.

Work

age effects on tolerance, 63-33.
altitude effects on tolerance, 63-33.
anxiety relation to workload in ATCS's, 73-15, 77-23, 80-14.
capacity after myocardial infarction, 64-2, 66-17, 66-21.
capacity of ATCS students, 71-8.
capacity related to age, 63-18.
capacity with step test, 64-3.
distractibility with monotony, 72-25.
drug effects on performance, 63-12, 63-34.
effects on blood pressure, 66-36.
energy cost on treadmill, 62-5.
field test for fitness, 63-6.
human tolerance, 62-6.
measurement of pilot workload, 77-15.
monotonous task performance correlates, 73-14.
motivation of ATCS, 73-2.
shift rotation effects, 65-5, 65-6.
sickle cell trait effects, 80-20.
strength and endurance of female pilots, 72-27, 73-23.
strength of flight attendants, 75-13.
thermal balance in heat and cold, 66-23, 68-13.

ATE
LME